

The



# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 23 1954



## 'CETAVLON'

Trade Mark

Cetrimide B.P.

### A new and improved quality

For over ten years 'CETAVLON' has been known to pharmacists and doctors for its useful cleansing and bactericidal properties. Recent developments in manufacture have now resulted in the production of a new higher grade 'Cetavlon', enhanced in purity and potency. Furthermore, by achieving a correct balance of long chain alcohols used as starting materials, it has been found possible to increase the solubility in water and hence facilitate the preparation of stock solutions.

#### The new 'Cetavlon'

- Destroys a wide range of Gram-positive and Gram-negative organisms, including *Ps. pyocyanea*.
- Contains no significant amount of saline matter.
- Enables stock solutions of up to 20% to be prepared. These solutions are stable to normal temperature variations and do not precipitate.

Available as:

#### 'Cetavlon' Powder

Containers of 50 grammes, 500 grammes and 2 kilogrammes.

#### 'Cetavlon' Concentrate 20%

Bottles of 100 c.c., 500 c.c. and 2 litres.

#### 'Cetavlon' Tincture 0.5%

Bottles of 100 c.c. and 500 c.c.

#### 'Cetavlex' Cream 0.5%

Tubes of 50 grammes and Jars of 500 grammes.

IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED  
subsidiary company of Imperial Chemical Industries Limited

WILMSLOW, MANCHESTER





**Nationally Advertised!**  
**Are you buying on Bonus Terms?**

Stop that chest cold quickly!

**VAPEX RUB**

acts on chest thro

THOMAS KERFOOT & COMPANY LIMITED · VALE OF BARDSLEY · LANCAS





## Where untilled soil tells of malaria

While world population mounts, food production lags behind. Yet crops could be abundantly increased in many areas if malaria were effectively controlled. Encouraging reports on 'Daraprim' suggest that this new drug can play a major part in eradicating the disease. Highly potent, tasteless, virtually non-toxic, 'Daraprim' has proved an excellent suppressant in a weekly dosage of 25 mgm. It is issued as compressed products of 25 mgm., in packs of 6, 30 and 1000.

# 'DARAPRIM'

PYRIMETHAMINE

BRAND

Issued in France and the French Empire as 'Malocide' brand Pyrimethamine



**BURROUGHS WELLCOME & CO.** (The Wellcome Foundation Ltd.) **LONDON**

Associated Houses: NEW YORK • MONTREAL • SYDNEY • CAPE TOWN • BOMBAY • BUENOS AIRES • CAIRO • DUBLIN

---

# When a Disprin tablet dissolves, you have calcium aspirin in solution

Ordinary aspirin is acid and but sparingly soluble: 'Disprin' is readily soluble and substantially neutral.

Calcium aspirin as generally prepared is chemically unstable and unpalatable: Disprin is both stable and palatable.

Thus to have united the advantages, whilst overcoming the defects, of these two widely useful analgesics constitutes a major advance in aspirin therapy. The results of extensive clinical trials of Disprin in leading hospitals justify the difficult and prolonged research which, until recently, delayed its successful formulation.

**DISPRIN** *Provides stable, soluble,  
palatable calcium aspirin.*

REGD.



# NOVO LENTE INSULINS

## **The Original Insulin Zinc Suspensions**

are imported from the Novo Laboratories in Copenhagen, where these outstanding new insulin derivatives were discovered and developed by Hallas-Møller, Petersen and Schlichtkrull. Each batch is tested and assayed by the manufacturers, Novo Terapeutisk Laboratorium A/S, in Denmark, and by The Evans Biological Institute prior to release in this country.

TYPE OF INSULIN	STRENGTH i.u. per ml.	IDENTIFICATION COLOURS	TRADE PRICE per vial of 10 ml.	RETAIL each
NOVO SEMILENTE Insulin Zinc Suspension (Amorphous)	40	Vermilion/Blue	4/4½	5/10
NOVO LENTE Insulin Zinc Suspension	40 80	Mauve/Blue Mauve/Green	4/4½ 8/3	5/10 11/-
NOVO ULTRALENTE Insulin Zinc Suspension (Crystalline)	40	Brilliant Yellow/ Blue	4/4½	5/10

**EVANS MEDICAL SUPPLIES LIMITED**

SPEKE · LIVERPOOL 19 AND RUISLIP · MIDDLESEX

# Bonus offer on all Penetrol products!



**PENETROL  
VAPOUR RUB**  
1/7

**PENETROL DROPS** 1/11  
**PENETROL PASTILLES** 1/9  
**PENETROL TABLETS** 1/6 to 3/10

**FOR RETAIL CHEMISTS ONLY**

*Bonus package free for every dozen ordered*

*We pay Purchase Tax on the Bonus*

This offer ends in January! Orders sent after January 31st will not benefit, so order now! Remember: Penetrol is nationally advertised, and is on sale only to Chemists.

Make the most of this offer by CARTWRIGHTS, the manufacturers of Moorlands Indigestion Tablets.



**PENETROL  
INHALER**  
1/11



**PENETROL  
INHALANT**  
Small bottle 2/8  
Large bottle 4/-

# Profit from the Penetrol offer NOW!

W. B. CARTWRIGHT LTD., RAWDON, LEEDS

## DUAL PURPOSE FEEDER



This is sold complete with the "SKYLON" brand valve teat and NO-GERM CAP. It combines all the benefits of a feeding bottle with the advantages of a food measure. Additionally the wide neck permits of easier filling, and the large teat allows the nearest approach to natural feeding



Regd. Trade Mark

## "SKYLON" POLYTHENE FEEDING BOTTLE

**PATA**

The new modern lightweight feeding bottle that no mother should be without. Indispensable at all times. Made of Pure Polythene. Safe and

- UNBREAKABLE
- HYGIENIC
- TASTELESS
- ODOURLESS

**UNAFFECTED BY FOODSTUFFS**  
All standard teats fit neck. Will keep contents warm longer than any glass bottle



Manufactured by

**FIBRENYLE LTD.**

157 DUKES RD., LONDON, W.3

TELEPHONE :

ACORN 5073

Obtainable from your usual Wholesaler



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**An advance  
in oral  
iron therapy**

Clinical trials have shown that Anorvit, the new B.D.H. preparation of iron with vitamins C and K, provides **most effective absorption of iron with remarkable freedom from gastro-intestinal disturbance.**

# 'ANORVIT'

TRADE MARK

Tablets containing ferrous sulphate,  
exsiccated, 3 grains (200 mg. approx.)  
ascorbic acid 10 mg.  
and acetomenaphthone 2 mg.

	TRADE	RETAIL
Bottles of 50 tablets	1/10	3/3
"    "    500    "	9/6	—

*A tax-free dispensing pack  
of 500 tablets is also available.*

THE BRITISH DRUG HOUSES LTD. LONDON N. I

Ant/T.531

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*From the Carnegie Range of Fine Chemicals*

# ALUMINIUM GLYCINATE

CARNEGIES OF WELWYN LTD

Telegrams : 'CARNEGIES, WELWYN GARDEN CITY'

Telephone : WELWYN GARDEN 5001

(6 lines)



# How to MAKE $15\frac{1}{2}\%$ EXTRA on sanitary towel PROFITS without selling any more towels

- ✓ As you probably know, your 3rd largest selling line is sanitary towels.
  - ✓ Or, if you prefer, you can order 2 cartons of Modess now and add  $11\frac{1}{2}\%$  to your profits.
  - ✓ And as you know sales of sanitary towels are regular all day, all the year round—you can be SURE the demand is there at a level rate.
  - ✓ Both these extra profit offers are conditional upon your displaying the attractive Modess point-of-sale material, specially designed to help you sell more.
  - ✓ Yet, by ordering smaller quantities of sanitary towels than you actually need, you are limiting your profit to the usual trade terms.
  - ✓ Both these offers apply for a limited duration only, so order now.
  - ✓ Now, you know from experience, you can sell at least 4 packets, and possibly 8 or more packets, of sanitary towels a day.
- HERE IS WHAT YOU GAIN  
BY ORDERING NOW**

**On 4 carton orders :**  
An extra 5% discount. Your profit will be £5.7.10 i.e.  $15\frac{1}{2}\%$  more than the normal profit of £4.13.4.

**On 2 carton orders :**  
An extra  $3\frac{3}{4}\%$  discount. Your profit will be £2.12.1 i.e.  $11\frac{1}{2}\%$  more than the normal profit of £2.6.8.
- ✓ Then here is how you can make EXTRA PROFIT without any extra sales or extra trouble.
  - ✓ Order 4 cartons of Modess now and get special terms that add  $15\frac{1}{2}\%$  to your profits. 4 cartons means selling less than 4 packets a day between calls of the Modess representative.

Ask your Modess representative when next she calls or write to:—

*Johnson & Johnson* (Gt. Britain) Limited, Personal Products Division, 6, Buckingham Street, London, W.C.2.



COX

*Large-scale Manufacturers of Fine Tablets*

also

PILLS PASTILLES

CREAMS OINTMENTS

SOLVELLAE SUPPOSITORIES

AND ENTIRE PRODUCTION OF THE 'CHEMIST'S OWN BRAND' PACKAGING SERVICE

*Arthur H. Cox & Co Ltd*  
BRIGHTON SUSSEX

**YOU can be assured  
of fine quality  
from C. F. GERHARDT LTD**

**IODIDES • CITRATES**

**BISMUTH SALTS**

C. F. GERHARDT LTD., 5 Fenchurch Street, London, E.C.3. Tel : MANsion House 5095



# SURGICAL STOCKINGS

Your customers' preference



*Lastestar*  
FULLY FASHIONED

*Litenet*  
ELASTIC NET

- **Designed - to - Measure**
- **Maximum Comfort**
- **Minimum Weight**
- **Almost Invisible**

**Invaluable During Pregnancy**

## A VITAL AID FOR VARICOSE VEINS

*For MEN a suspender is supplied if required*

Wholesale and Export Enquiries:—

**F. LONGDON & COMPANY LTD., AGARD ST., DERBY**

Telephone : +0253 (4 lines). Telegrams : ELINSTAR, DERBY.

# CALVERT'S NEW SCHEME WILL BRING YOU BIGGER SALES

Name and Address \_\_\_\_\_  
 of Clinic \_\_\_\_\_  
**TO THE CHEMIST :—**  
 Please supply my patient named below with a full size  
 1/7d. tin of Dan Dare Tooth Powder free of charge.

Dental Officer \_\_\_\_\_

Name and address of recipient of tin \_\_\_\_\_

I have supplied the tin as requested and now claim  
 repayment of the full retail price (1/7d.)

Chemist's Name and Address \_\_\_\_\_

This voucher will be redeemed at the full Retail Price  
 of 1/7d. if sent by the Chemist Retailer properly  
 completed to :— F. C. CALVERT & Co. Ltd.,  
 GIBBON STREET, MANCHESTER, 11.

**SCHOOLCHILDREN  
 GIVE YOU THIS  
 FORM (SIGNED BY  
 THE SCHOOL DENTAL  
 OFFICER)**

**YOU ISSUE FREE  
 -A TIN OF CALVERT'S  
 DAN DARE  
 TOOTHPOWDER**



**and we pay you the full retail price 1/7**

Schoolchildren are already keen to get DAN DARE Tooth Powder—especially with its free issue of the DAN DARE Album and picture cards—so they'll jump at the chance of getting a tin free. And for every tin you give away in exchange for the signed form, we pay you the full price of

1s. 7d. The books of coupons have already been distributed to school Dental Officers for issue to schoolchildren. Order your stocks of DAN DARE Tooth Powder now—and make sure the product is well-displayed.

**F. C. CALVERT & CO. LTD · GIBBON STREET · MANCHESTER, 11**



# Max Factor

introduces the

most exciting fashion lipstick shade ever created

# riding hood red

a new red...  
a ripe young red  
in Max Factor's  
long-lasting lipstick



Here are three reasons why Max Factor's Riding Hood Red will be the greatest lipstick sales and profit builder you have ever handled.

\* The colour is high fashion

... so wonderfully attuned to the fabric colours chosen by the world's greatest fashion leaders for Spring, that it has been selected by the most authoritative fashion journals for special independent editorial promotions.

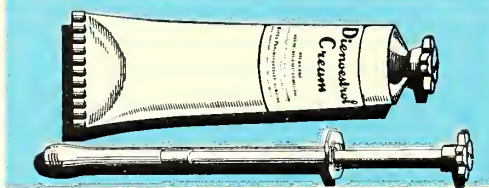
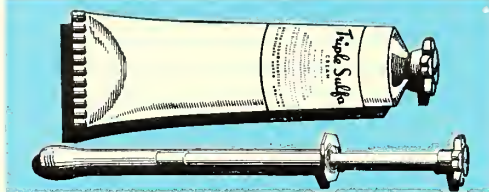
\* The campaign has high emotional appeal

Here is the most topical . . . the most feminine . . . the most appealing theme in lipstick history — and it is supported by Max Factor's most intensive-ever advertising campaign for any lipstick shade, with large space full colour and black and white advertisements, reaching the stupendous total of over 47,000,000 women readers.

\* A whole host of selling aids

... to send the customers into your shop for Riding Hood Red lipstick, Max Factor presents a superb array of ideas and selling aids, including window bills, window and counter display units and blocks for your own local advertising.

\* *The colossal advertising campaign breaks on 31st January — make sure that your stocks are adequate to meet a greater demand than you have ever before experienced.*



*... devoted to the discovery and development of obstetric and gynaecologic pharmaceuticals*

**Aci-Jel:** For restoration and maintenance of normal vaginal acidity. Bland, non-irritating highly buffered acid jelly for topical use in treatment of vaginitis.

Aci-Jel: 3 oz. tube with or without applicator.

**Triple Sulfa Cream:** For bacterial vaginal infections. Combines three sulphonamides with urea peroxide for more effective control of a wide variety of vaginal pathogens. Relieves symptoms promptly, eliminates malodorous discharge.

Triple Sulfa Cream:  $2\frac{7}{8}$  oz. tube with or without applicator.

**Dienoestrol Cream:** Vaginal oestrogen therapy for senile and atrophic vaginitis and postmenopausal pruritis vulvae. Contains 0.1 mg. of the synthetic oestrogen dienoestrol per gram of cream base.

Dienoestrol Cream:  $2\frac{7}{8}$  oz. tube with or without applicator. Also available in 1 oz. tubes for general application as prescribed.

**Massé Nipple Cream:** For prevention and treatment of cracked nipples. Contains the safe, effective antiseptic 9-amino acridine and allantoin. Dainty, aesthetic, emollient and healing. Does not interfere with nursing. Ideal for antepartum nipple conditioning and postpartum nipple care.

Massé Cream: 1 oz. tube, individually boxed.

**Hexital:** For relief of menopausal symptoms. Combines 3 mg. of the synthetic oestrogen hexoestrol with 20 mg. of phenobarbital. Oestrogen effect plus mild sedation provide more complete control of menopausal symptoms.

Hexital: Bottles of 100 and 500 tablets.

**Nidoxital:** Controls nausea and vomiting of pregnancy with pyridoxine, dl-methionine, nicotinamide, benzocaine, and pentobarbital. Effective relief in 24 to 72 hours in most cases.

Nidoxital: Bottles of 12, 20 and 100 capsules.

**Nutri-Sal:** A Ringer-type/glucose douche designed to promote fertility in selected cases by virtue of its ability to enhance sperm survival and migration.

Nutri-Sal: Packages of 3 vials, each sufficient for 1 pint douche solution.

*Supplies through your usual wholesaler, please!*



**Ortho Pharmaceutical Limited**

HIGH WYCOMBE · BUCKINGHAMSHIRE · ENGLAND  
Makers of Gynaecic Pharmaceuticals



# M. W. HARDY & CO. (OVERSEAS) LTD

Pinners Hall · Great Winchester St. · London · E.C.2

**WORLD EXPORT AGENTS**

for

## PENICILLIN PREPARATIONS

MANUFACTURED BY



THE RANGE INCLUDES

LOZENGES · TABLETS · OINTMENTS · Etc.

*Aids to Dispensing Outfits of Cream and Drops*

VOLTAGE  
200/250  
A.C.



**NATIONALLY ADVERTISED**

*Smoothmaster*  
REGD.

**ELECTRIC DRY SHAVER**

RETAILS AT

**39/6**

INCLUDING P.T.

- PRECISION MADE ● FULLY TESTED
- 12 MONTHS GUARANTEE
- AUTOMATIC SELF-SHARPENING CUTTING BLADES

Retailing at the right price for every customer, an advertising campaign to popularise this reliable and efficient Electric Dry Shaver has started in the 'News Chronicle,' the 'Daily Herald,' the 'Sunday Empire News' and further display advertisements will be appearing in all the leading National Daily and Sunday papers.

NOW ACCEPTING ORDERS FOR 1954

WRITE FOR FULL DETAILS AND ATTRACTIVE TRADE TERMS TO:-

**SMOOTHMASTER LTD.** 72 TOTTENHAM COURT ROAD, LONDON, W.1.

Telephone: MUSEum 0474

**GIGANTIC  
SECTO BONUS  
OFFER**

**BRITAIN'S GREAT INSECT  
KILLER**

**FOR BEST BONUS**

**BIGGEST PROFITS**

**ON SMALLEST OUTLAY**

**IT PAYS TO DISPLAY AND  
RECOMMEND SECTO PRODUCTS**



# GIGANTIC SECTO BONUS OFFER

HERE IS YOUR OPPORTUNITY TO OBTAIN RECORD PROFITS. MAKE YOUR CHOICE FROM THESE BIG OFFERS ON COMBINED ORDERS FOR SECTO FOWDERS, LIQUIDS, AEROSOLS, HAND-SPRAYERS AND FLYCARDS :-

**15%** SPECIAL DISCOUNT ON **£10** VALUE = **66%** ON COST

**12½%** SPECIAL DISCOUNT ON **£5** VALUE = **61%** ON COST

**AEROSOLS** SPECIAL BONUS (AEROSOL BONUS TO BE KEPT SEPARATE)

**2½%** SPECIAL DISCOUNT ON **1 DOZ.** ANY SIZE

**5%** SPECIAL DISCOUNT ON **3 DOZ.** ASSORTED SIZES

SECTO PRESS BUTTON AEROSOLS ARE PACKED FULL. ATTRACTIVE NEW DISPLAY MATERIAL PROVIDED FOR ALL LINES.

**QUICK SELLING PRODUCTS INCLUDE :-**

**AEROSOLS** 5/6 — 4oz. 7/6 — 6oz. 12/6 — 12oz.  
USUAL GENEROUS TRADE PROFIT MARGINS PLUS BONUS

**POWDERS**

- 9d. SMALL SIZE
- 1/- B.H.C. SQUEEZE DRUM
- 1/3 D.D.T. WITH SYNERGISTS
- 2/3 " " "

**ANT POWDER**

- 1/3 SPECIAL FORMULA IN SQUEEZE DRUM

**FLYCARDS**

- 6d. PKTS. CONTAINING 3 CARDS

**LIQUIDS**

- 1/9 — 8 oz. 7/- — 40 oz.
- 2/3 — 10 oz. 19/- — 1 gall.
- 3/- — 16 oz.

**HANDSPRAYERS**

- CONTINUOUS ACTION 3/9
- SINGLE ACTION 3/9

THESE ATTRACTIVE **NEW PRODUCTS** WILL SELL WITH RAPIDITY



**1/3 ANT POWDER IN SQUEEZE DRUM**



**1/- SECTO B.H.C. SQUEEZE DRUM POWDER**



**CONTINUOUS ACTION PRESSURE SPRAYER 3/9**

SEND YOUR ORDER NOW FOR DELIVERY BY APRIL 30th

**CUPAL LTD.**  
MANUFACTURING CHEMISTS  
BLACKBURN





*Introducing* **HELVIA**  
 FLEXIBLE  
 FIRST-AID DRESSING

*in the NEW  
 Extra Hygienic  
 Pack!*



- Ideal for home, sport, motoring, and all occasions when a small pack is required.
- Made up in continuous lengths of 1 yard x 1 1/2", 2 1/2" and 3" wide.

This attractive new pack is of the enclosed 'pull-out' dispenser type. More hygienic because the bulk of the dressing is completely protected and untouched by hand, and more convenient because there are no odd strips or loose patches—you simply snig off the exact length as and when required. Arrange now through your WHOLESALE to stock and display HELVIA—the last word in modern First-Aid Dressing.

★ Sold only through Leading Chemists

**LESLIES LTD.** WALTHAMSTOW LONDON E17  
 Estab. 1823

*Wonderful News!*  
**Lustre-Creme Shampoo**  
*now in 7 1/2" tubette*



**YES! WONDERFUL NEWS FOR YOUR CUSTOMERS!  
 AND WONDERFUL NEWS FOR YOU, TOO!**

Here's Lustre-Creme in new popular price size! With country-wide advertising to back it up! Make sure you have the Lustre-Creme Tubette on display on your counter. It's going to bring you more Lustre-Creme business than ever! Not for nothing is Lustre-Creme hailed "Hollywood's Most Popular Shampoo."

—COLGATE-PALMOLIVE LIMITED, LONDON, W.C.2—

*Attractive NEW tube packs for*

**ROZALEX**  
 BARRIER CREAMS

*the invisible glove*



ROZALEX LIMITED, 10 NORFOLK STREET, MANCHESTER 2





## CASILAN is a family affair



A diet poor in protein actually hastens the ageing process, and those old people who subsist largely on tea-and-toast diets are among the first to succumb to exhaustion and illness. Casilan is therefore a valuable "extra" for the aged—and one that will do much to restore their vitality.



If the family breadwinner falls ill, the tissue-building protein of Casilan will help speed his recovery and his return to the pay-roll. If 'overweight' is the problem, Casilan can be relied upon to provide a sustaining yet *non-fattening* basis for the reducing diet.



Not many housewives can afford abundant supplies of protein-rich foods, such as meat, fish and fowl. But they can afford a weekly tin of Casilan. And what value! Every ounce contains 26 grams of protein—more than in four eggs or a pint and a half of milk.



Infants and children have very real need of ample protein if regular, healthy growth is to take place. Casilan completely meets this need, because it is first-class protein and therefore extremely rich in the "formative" nourishment so necessary for healthy tissue growth.

# CASILAN

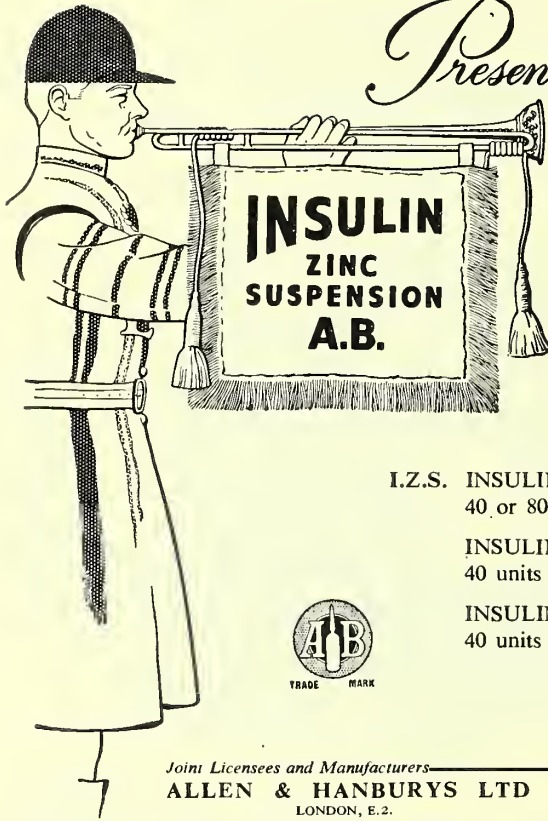
Trade mark

WORTH ITS WEIGHT IN PROTEIN

8-oz. 4/-; trade price per doz: 38/5  
 40-oz. 16/8; trade price per doz: 160/-  
 Parcel No. 2. 1 doz. x 8-oz. cartons, £1.16.0.

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX BYR on 3434





Presenting **I.Z.S.**

With I.Z.S. the new type of insulin with zinc, rapid onset of effect with prolonged action is provided. I.Z.S. enables satisfactory control of the blood-sugar level to be achieved in about 90% of diabetics by one injection daily.

For the few patients who may require either longer or more rapidly acting mixtures there are also available the quick acting Insulin Zinc Suspension (Amorphous) A.B. and the longer acting Insulin Zinc Suspension (Crystalline) A.B.

- I.Z.S. INSULIN ZINC SUSPENSION A.B.**  
40 or 80 units per c.c. Vial of 10 c.c. *Duration of action—24 hours.*
- INSULIN ZINC SUSPENSION (Amorphous) A.B.**  
40 units per c.c. Vial of 10 c.c. *Duration of action—about 12 hours.*
- INSULIN ZINC SUSPENSION (Crystalline) A.B.**  
40 units per c.c. Vial of 10 c.c. *Duration of action—up to 30 hours.*



The New **A.B. Insulins**

Joint Licensees and Manufacturers  
**ALLEN & HANBURY LTD**  
LONDON, E.2.

**THE BRITISH DRUG HOUSES LTD**  
LONDON, N.1.

**BIGGER SALES**  
From Old-established Baby Remedy

OUR New National Publicity has special appeal to mothers, reaching at least 20 million of them, through Women's Magazines and the Daily and Weekly Press. Be ready to meet the large demand by building up your stocks of Nurse Harvey's Mixture now. It's a best seller! Display material is available on request.

**NURSE HARVEY'S BABY POWDER** (with olive oil) is rapidly gaining popularity. Be sure to include a supply in your next order.

O. Scruton & Co. Ltd. Barker Lane, York



**RATS!!!**

so what?

**Sorex!**

Used according to directions **SOREXA**, containing the original British Warfarin, achieves 100% extermination in 7-14 days.

Retail Price  
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*Warfarin*  
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SULPHATE IN  
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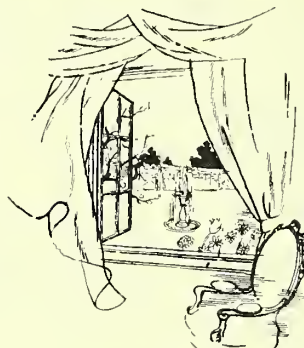
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'Lavend-air' retails at..... 3/-      Refills retail at..... 2/6  
Trade price ..... 27/-      Trade ..... 22/6

Packed in dozen outers. Display material with every dozen.

★ CARE and LAVEND-AIR will be introduced to your customers by two tremendous advertising campaigns on a nation-wide scale from January in the leading National Dailies and Weekly and Monthly women's magazines. The advertisements will be seen by women over 45 million times.

# . . two great new products

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★ CARE and LAVEND-AIR will bring you big profits—sales will be high and your margin is generous.

*Your customers will want to  
take CARE*

'Care' is a new doubly-effective medicated hand-cream: it alleviates rough dry hands by replacing the natural oils removed by soaps and washing powders. It also contains Octaphen (p/p-p-tert. Octylphenoxyethyl diethyl benzyl ammonium chloride), an antiseptic used by surgeons for gloveless surgery.

'Care' retails at 2/3      Trade price 15/6 per dozen

Packed in 1 dozen outers. Display material with every dozen.

## BONUS OFFER

For every order of 2 dozen tubes of 'Care' and 2 dozen flasks of 'Lavend-air' you will receive four extra tubes of 'Care' free—retail value 9/-.

Thus:

2 dozen 'Lavend-air' and 2 dozen 'Care' inclusive of Purchase Tax costs	
you ... ..	<b>£4.10.5</b>
Retail value of 2 doz. 'Lavend-air' ... ..	3.12.0
Retail value of 2 doz. 'Care' ...	2.14.0
4 free tubes of 'Care' ... ..	9.0
	<b>£6.15.0</b>

Your profit is therefore £2.4.7, or almost 50% including Purchase Tax.

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The manufacturers of 'Care' are safeguarding you in the event of a reduction in Purchase Tax. The value of the four free tubes more than exceeds the Purchase Tax on 2 dozen tubes of 'Care'. Send your order now and take advantage of these generous terms which are only available until March 31st.

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# \* 82% ON COST \*

*Here are the facts again—as set out in the Tek bonus broadsheet you received last week.*

- 1** 7½% additional *cash* discount on orders of 6 dozen.
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- 3** 17½% additional *cash* discount on orders of 2 gross and upwards.
- 4** 82% profit on cost on all orders for 24 dozen Tek toothbrushes and upwards.
- 5** NO FIXED PARCELS. You choose what *you* want. Select the quantity you require—in dozens—of Tek Bristle, Tek Nylon or Tek '53' as you will. (Tek Junior toothbrushes excepted.)
- 6** CHOICE OF DELIVERY DATE. Delivery of your complete order will be made *at once* or any time before March 31st. Specify delivery date required on your order.

## THERE'S STILL TIME TO TAKE ADVANTAGE OF THESE TEK 'BONUS' TERMS

Post back the special broadsheet 'Bonus' order form (Specifying delivery date required) TODAY.  
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**— a million who  
thrive on variety!**

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Build up your sales—stock and display a full range of Heinz Strained Foods, the approved basis for *one million babies'* diet!



**57 HEINZ STRAINED FOODS**

17 varieties: each 7d.



# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 161

January 23, 1954

No. 3857

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# The CHEMIST AND DRUGGIST

Volume 161

JANUARY 23, 1954

No. 3857

## A Council Member Under Fire HIS RESIGNATION DEMANDED

AN extraordinary meeting of the Portsmouth Branch of the Pharmaceutical Society, held in Southsea on January 12, to discuss the way in which the subject of unqualified assistants had been dealt with recently in the national Press, called for a "severe vote of censure" on Mr. F. C. Wilson and for his resignation from the Society's Council.

In the discussion which took place it was pointed out that the Press reports of the speech made by Mr. F. C. Wilson at a meeting of the Durham branch were very damaging to pharmacy as a profession, particular attention being drawn to the editorial of *The Recorder*. It was noted that no report of the Durham branch meeting had so far appeared in the pharmaceutical Press. It was pointed out that the duty of any member of the Council of the Pharmaceutical Society was to promote and strengthen public confidence in the pharmacist, and that it was bad manners, and a gross error of judgment on the part of Mr. Wilson to ventilate domestic matters in a speech, a Press copy of which had been previously given to the Press Association. His statement was ill-considered and ill-advised, particularly as he was reopening a subject that had been officially declared closed by the Council. Strong indignation was expressed at Mr. Wilson's attitude and

action. The feeling of the meeting was crystallised in the following resolution which the secretary was instructed to forward to the Council of the Society:—

The Portsmouth branch of the Pharmaceutical Society expresses its strong disapproval of the manner in which Press copy in respect of a branch meeting at Durham on December 3, 1953, was issued to the local and national Press, and condemns the action of Mr. F. C. Wilson for allowing such a controversial matter as the registration of unqualified assistants to appear in the lay Press, especially when the Council's proposals in this connection were so heavily defeated at the annual meeting in 1953. It requests that a severe vote of censure be passed upon the person concerned, and further requests that steps be taken by the Council to prevent a repetition of any similar incident. The Portsmouth branch demands the resignation of Mr. F. C. Wilson from the Council of the Society forthwith.

A suggestion was made that the Society should be asked to consider the replacement of the Press officer with a public relations officer, who should be a pharmacist.

Mr. H. N. Griffiths presided. Those present included Mr. J. Dowty, Southampton (a member of the Society's Council) and some members of the Southampton branch.

## CHEMISTS FEDERATION Meeting of council

A MEETING of the Chemists Federation council was held in London on January 7, the president (Mr. S. M. Lennox) in the chair. Meetings of committees were held the previous day. The members of council stood for one minute in silent tribute to the memory of the late Mr. G. A. Mallinson. An application for membership by Pharmaceutical Supplies (Coventry), Ltd., Coventry, was approved and authority given for the company's name to be added to the list of approved C.F. wholesalers. A report of propaganda work undertaken by the Federation's representative among chemists in the Cardiff and the Barry borough National Pharmaceutical Union branch areas was received. The council approved the final draft of the second edition of *The Chemists Friend* which is being circulated to members at the end of January; and noted with pleasure the increasing number of C.F. manufacturers who were incorporating



**MANUAL SKILL MAY SERVE MECHANISED TECHNIQUES:** Like many other industries, modern perfumery production is mechanised. It still depends at many stages on the touch of the skilled hand. For example, in the factory of Delavelle, Ltd., 38 Orsman Road, London, N.1, bottles for Blue Orchid brilliantine are taken by conveyor belt to the filling machine, thence to be capped and labelled. A jet of pressurised air gives the bottles a final cleansing before they are filled. In the same factory perfume bottles are finished with a ribbon bow. There are no machines for bow-tying, which is done by hand (second illustration). Tying the bows requires quite a lot of dexterity and practice. If the goods are for export (as with Delavelle hair cream) they must be tested for reaction to heat, cold, damp and other extreme conditions in a packaging laboratory (right).



the C.F. symbol in their trade advertisements. The accounts of the Federation for 1953 were presented by the finance and establishment committee and approved. Final arrangements were made for the annual luncheon and meeting of C.F. manufacturers which is being held on January 28.

## STEROIDAL ALKALOIDS

### Fine chemicals group discussion

DESPITE fog, many members of the fine chemicals group of the Society of Chemical Industry turned out for the December 18, 1953, meeting in London. DR. NORMAN EVERS (vice-chairman) who presided because of an accident to the chairman (Dr. W. Mitchell) introduced PROFESSOR D. H. R. BARTON (Birkbeck College, University of London) who gave a lecture on "The Steroidal Alkaloids." The steroidal alkaloids are a class of naturally occurring compounds some of which show marked physiological activity. Three groups may be distinguished according to their botanical origin:—Solanum alkaloids, obtained from *S. tuberosum* (potato), *S. lycopersicum* (tomato), and other species; veratrum alkaloids, usually from *V. album* and *V. viride* (European and American "hellebore") or from *Sabadilla* (*V. sabadilla*) seeds; and holarrhena or kurchi alkaloids from "kurchi" (*H. antidysenterica*) and other Indian and African species of *Holarrhena*. The solanum and veratrum alkaloids include glycosidic and ester types as well as the simple bases (alkamines). The holarrhena alkaloids occur in nature as the simple bases containing 21-25 carbon and 1 nitrogen atoms in the molecule. The lecturer summarised the principal evidence for the structures proposed for those steroidal alkaloids whose chemistry had been sufficiently studied (among them solanidine, demissidine, tomatidine, rubijervine, jervine and conessine), and dealt with recent work, in part from his own laboratory, upon the structure of cevine, the most important of the highly oxygenated veratrum alkaloids. In the discussion that followed interest centred upon the chemistry of cevine. PROFESSOR BARTON informed DR. EVERS that the use of veratrum alkaloids as hypotensive agents had been possible only subsequent to their isolation in pure form.

## STERILISING DRESSINGS

### Pharmacist's responsibility?

THE pharmacist should be responsible for the sterilisation of dressings in hospitals, declared DR. R. MAXWELL SAVAGE (chief chemist, S. Maw, Son & Sons, Ltd.) when he addressed a joint meeting in London on January 13 of the microbiology group of the Society of Chemical Industry and the Society for Applied Microbiology. In many hospitals the sterilising of dressings was left to the nursing or domestic staff. The work demanded a slight knowledge of engineering plus a knowledge of the properties of steam, a broad knowledge of bacteriology and a knowledge of how the materials of dressings behaved. In general, simple

autoclaving was the method of choice.

## N.H.S. ELECTIONS

### Further arrangements

NOTICES relating to the Pharmaceutical Committee elections (*C. & D.*, January 9, p. 25) and nomination forms are being sent on January 26 to chemist contractors whose names are on the pharmaceutical lists of the areas for which the secretary of the National Pharmaceutical Union is acting as returning officer, and to employee pharmacists engaged in National Health Service work whose name has not been submitted should at once apply by postcard to the returning officer, 4 Queen Square, London, W.C.1. No application is necessary in the following areas: Blackburn, Carlisle, Carmarthenshire, East Ham, Grimsby, Huddersfield, Isle of Ely, Montgomeryshire, Reading, Smethwick, Wallasey, Walsall, West Bromwich and Wiltshire.

## U.S. HEALTH PLAN

### President's recommendations

WHILE rejecting the nationalisation of medical services in the U.S.A., President Eisenhower recommended to Congress on January 18 that the U.S. Government should establish a programme to aid private insurance companies in providing family health protection. The average annual expenditure on medical treatment by an American family was, he said, \$200 (about £71). The President also suggested the strengthening of research activities by the public health service with particular reference to cancer, heart diseases, mental illness, arthritis, blindness and dental ailments. In 1953, 224,000 U.S. citizens died of cancer and 817,000 from diseases of the heart and blood vessels. The recommendations have, in general, been favourably received by Congress.

## BAGHDAD TRADE FAIR

### Chemical section to be included

A BRITISH Trade Fair is being held in Baghdad from October 25 to November 8. It is understood that a chemical section will be included and that already a number of firms in the field have approached the organisers. The fair will occupy a site as big as Olympia and the White City together and is being arranged by the Federation of British Industries, with the support of the British and Iraqi governments, to foster trade to the advantage of both countries. Sir Norman Kipping (director general of the Federation of British Industries) said in London on January 19 that the need for the fair was urgent. A radical change had taken place in the economic status of Iraq and in trade between Britain and the Middle East.

## PRODUCTION CENSUSES

### Chambers of Commerce criticism

THE Association of British Chambers of Commerce, in a memorandum submitted to a Board of Trade commit-

tee recently, has advised the Government to abandon censuses of production and distribution on the ground that time and money are being wasted in compiling information which manufacturers and merchants find of little or no practical value in business. The association suggests that statistical data and records maintained by most trade associations should be used to provide the data for forward planning.

## IRISH NEWS

### Criticism of Latin for Prescriptions

IN the *Dail* recently, MR. SEAN DUNNE asked Mr. Lemass (Minister for Industry and Commerce) "if he will draw the attention of the Fair Trade Commission to the practice of having medical prescriptions written in Latin and in secret code signs, and if he will request the Commission to consider the question of having this system abolished in the interest of public enlightenment and fair trading." MR. LEMASS refused; he explained that he did not consider that the matter came within the ambit of the Restrictive Trade Practices Act, 1953.

The *Irish Press* devoted an article to the subject the next day. They stated: "a trend noticeable recently in Britain to write prescriptions in English is beginning to be followed in Ireland." Chemists, said the article, had stated that doctors' prescriptions usually gave the names of well-established drugs in Latin, but the names of new drugs in English. It was considered wise to give directions in Latin in certain cases; when a neurotic patient knew exactly what he was getting the psychological effect of the medicine was lost. There was also the consideration that, if a patient went abroad, he could take a Latin prescription with him, and have it compounded by any chemist.

### Impressions of Holland

THE Pharmaceutical Chemists' Debating Society at a meeting held in Dublin recently heard impressions from Irish Student delegates of their trip to Holland to attend the annual International Congress of Pharmaceutical Students at Leiden (see *C. & D.*, 1953, II, 231). MR. P. S. O'BRIEN, M.P.S.I., read a paper on the cultural and educational results of the trip and said that pharmaceutical education in Holland was broader, and with less "cramming" than in Ireland. A pharmacist in Holland was very much a member of a profession. He could command a salary up to £1,500 a year. Papers were also contributed by Mr. D. Nunan and Miss R. Murphy and colour slide illustrations were provided by Mr. O. Lynch.

### Statutory Committee

THE Statutory Committee of the Pharmaceutical Society of Northern Ireland at a meeting on January 14 heard an application to restore the name of Mr. Francis Murphy, 165 Spencer Road, Londonderry, to the pharmaceutical register. It was decided that the restoration should take effect from January 23 (see *C. & D.*, 1953, II, 388).



## NEWS IN BRIEF

**100-per-cent. Response.**—All chemists in Oxford have agreed to put in a C.F. window display during the week of the British Pharmaceutical Conference meeting, September 13-17.

**Dinner and Theatre Party.**—The directors of Stafford Allen & Sons, Ltd., Long Melford, Suffolk, entertained 250 employees to dinner and a visit to a theatre in Cambridge on January 8.

**Women Pharmacists' Council Election.**—Nominations for election to the council of the National Association of Women Pharmacists must reach the secretary (Mrs. E. N. J. Jones), 6 Ravenswood Avenue, Rock Ferry, Ches, by February 1.

**Protection Against Penicillin.**—Nurses at Chesterfield hospitals who have complained of skin irritation resembling "chapping" will wear protective clothing when giving penicillin injections, the Chesterfield hospital management committee has announced.

**"Personal Exports" Decline.**—Sales to visitors under the personal exports scheme in the third quarter of 1953 amounted to £1,243,000, a decline of 23 per cent. compared with a year earlier and of 34 per cent. compared with the third quarter of 1951.

**Statutory Committee.**—The Statutory Committee of the Pharmaceutical Society is meeting at 17 Bloomsbury Square, London, W.C.1, at 2.30 p.m. on February 3, to inquire into complaints from which it appears that a member of the Society was under the influence of drink or drugs whilst in charge of a pharmacy.

**Retail Sales in November 1953.**—According to recently published Board of Trade figures sales in independent retail pharmacies in November 1953 were 3 per cent. higher than in November 1952 and 17 per cent. higher than in October 1953; the corresponding figures for multiple establishments are 1 per cent. higher in each case.

**Emergency Locum List.**—Members of the West Middlesex Chemists' Association who are not regularly practising, but who would be willing to help fellow-pharmacists in emergencies only, are asked to submit particulars to Mr. R. C. Edwards, 265A Fulham Road, London, S.W.3, for inclusion in a list of emergency locums.

**Key Industry Duty Exemptions.**—The Treasury has made an Order (published as S.I. 1954, No. 20), exempting the following articles from Key Industry Duty, for the period beginning January 18 - February 18:—Ethylene glycol monobutyl ether; 5-methylheptan-3-one; phthalic anhydride; isoquinoline; and sodium 4-aminosalicylate.

**D.D. Authority Restored.**—The Home Secretary has restored to Mr. Geoffrey Roderick Richards, M.R.C.S., L.R.C.P. (registered address: 5 Corrymore Mansions, Sketty Road, Swansea), from January 14, authority to be in possession of, to supply or to give prescriptions for Dangerous Drugs, which was withdrawn from him in September 1949.

## TOPICAL REFLECTIONS

By Xrayser

### *A Fellowship Basis*

The important article by Mr. E. R. Matthews suggesting a basis for the Fellowship of the Pharmaceutical Society (p. 67) may with advantage be discussed by the Society's branches. It is to be hoped that the Council has not committed itself to any hastily devised scheme for conferring the Fellowship, for the matter calls for careful consideration. Mr. Matthews suggests various subjects that may serve for tests: others will no doubt occur to some of his readers. On one point everyone will agree, that (to quote from the article) "the Fellowship of the Pharmaceutical Society must . . . become comparable in status with university 'higher degrees,' but that objective will not be attained by imitating those awards." Among the subjects suggested—I hope they will not be called "endorsement subjects"—is "marketing and distribution of pharmaceutical products." This looks like a department of the subject commonly called business methods, which the Council has hitherto appeared to be shy of handling. As, however, the degree of bachelor of commerce is recognised (and, I believe, respected), why should not business methods be introduced as an optional subject for the Society's higher qualification? The authorities should be able to survive the shock.

### *Business Questions*

The fact that replies to six out of the seven business queries on p. 65 include mention of liability to income tax is a sign of the times. Problems arising under present conditions of taxation of income have become so numerous and so complicated that only traders on a quite small scale can hope to balance their books successfully without the help of an accountant. (By the way, do accountants balance their own books?). The second and third of the queries referred to deal respectively with payments by way of salary and of a partner's drawings. We can understand that inspectors of taxes demand records of all salaries paid, and that to explain any of them as forming unspecified items in petty cash, for instance, is not enough. Another point made clear by your contributor is that a partner's drawings are "an adjustment of the agreed shares of profit (or loss) by reference to the value set upon the respective labours of the partners in the business." Accordingly, no P.A.Y.E. need be deducted. The other query on the page, that of formation of a limited company, is also frequently recurring.

### *Shortage of Science Teachers*

On January 14 a conference—arranged by the education committee of the Federation of British Industries—on the scarcity of science teachers was held in London. The subject, though primarily of concern to industrialists, universities and technical colleges, has repercussions in every department of working life. If this country is short of the people it needs in research and teaching, it will fall behind in the never-ending competition for new or expanding markets. Among the speakers were the Vice-Chancellor of Leeds University (Sir Charles Morris) and the headmaster of the City of London School (Dr. A. W. Barton). A distinction between "scientists" and "first-class men" was made by Sir Charles Morris. The number of scientists in our universities, he said, had doubled, but that of first-class men had increased by only about 10 per cent. Teaching, except for the few who have a genius for it, is sometimes dull work: I remember being told by a professor, long ago, that he could not think why some of his private pupils attempted to study his subject. This one-day conference ended with a recommendation that the Federation should set up "a committee, representing the universities, the schools, industry, and other employers of scientists, to maintain and strengthen the contacts between the various interests concerned," with the aim of seeking a permanent solution as well as an improved supply of science teachers for the near future. The financial aspect of the matter is well known.



## EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Qualifying examination held by the Pharmaceutical Society in England and Wales in January:

Aldrich, George A., Evesham  
 Allen, Michael, Scarborough  
 Allison, Jean, Plymouth  
 Austin, Patrick J., Strood  
 Bainbridge, Alan, Crewe  
 Barnett, Pauline A. G., Peacehaven  
 Barton, Patricia E. M., Pudsey  
 Beare, Thomas C. E., Surbiton  
 Becker, Ann, Chitheroe  
 Bell, Margaret J., Yeovil  
 Bengough, Sylvia M., Sutton Coldfield  
 Boismanson, Colin J., Morecambe  
 Booth, Francis, Romford  
 Bootle, Margaret Hindley  
 Bowen, Beryl, Cardiff  
 Boyce, Margaret, Hull  
 Boydell, Harold J., Lewton  
 Brand, George H. P., Hampstead  
 Brand, Rosemary I., Thame  
 Brookes, Francis H., Wellington  
 Brooks, Alan W., Burnley  
 Brooks, Tony C., Walsall  
 Brown, Gordon S., Bolton  
 Brudney, Norman, High Wycombe  
 Buckles, John, Preston  
 Butterworth, Kenneth R., Wood Green  
 Capps, Barbara J., Worthing  
 Carr, John B., Sheffield  
 Carrington, David W., Oakham  
 Carrington, J. N., Dorking  
 Chambers, Evelyn R., Welling  
 Chapell, Vernon F., Guernsey  
 Chrobok, Bronislaw T. A., Balham  
 Clegg, Alan, Oldham  
 Coles, Jean M., Chichester  
 Collins, Laurence D., Barnet  
 Colville, Heather, Bridlington  
 Connor, Hugh McL., Renfrew  
 Convisser, A. C. R., North Wembley  
 Cook, Frank, Plymouth  
 Corrick, Marion, Swansea  
 Curtis, Patricia A., Bath  
 Curzon, Brian K., Bolton  
 Davis, Anthony J. G., Hove  
 Donaldson, Jean M., Thornton Heath  
 Dorrington, Dennis S., Southampton  
 Downing, Evan J., Nottingham  
 Drane, Paul V. A., Coventry  
 Drapkin, John L., Muizenberg  
 Edwards, Kenneth V., Rhyl  
 Edwards, Mair LL., Bridgend  
 Ellis, Barbara (Mrs.), Mansfield  
 Fishbein, Alfred H., Stamford Hill  
 Fox, Ronald W., Bournemouth  
 Freedman, Sidney S., Salford  
 Frost, Michael R., Wolverhampton  
 Gadd, John R., Henleaze  
 Gilbert, John N. T., Westcliff-on-Sea  
 Godden, Clarice P., Shepherds Bush  
 Goodall, Katherine M., Brightonsea  
 Gould, Yvonne L., West Bromwich  
 Green, Jeffrey, Salford  
 Gwynne, Dianzee M., Exeter  
 Hadfield, Barbara, Woodford, Ches  
 Hallworth, Brian L., Stockport  
 Hamer, John M., Croydon  
 Hanson, Bryan H., Chichester  
 Harding, Ann M., Leicester  
 Harris, Malcolm, Cardiff  
 Haworth, Sheila M., Blackburn  
 Hickman, John R., Birmingham  
 Hill, G. E., Old Colwyn  
 Hine, Diana M., Nottingham  
 Hirst, John L., Bristol  
 Hodgson, Bernard J., Leicester  
 Howard, Peter K., Swansea  
 Hulme, Norman, Crewe  
 Hutchnings, D. W., Market Harborough  
 Hyman, Vernon, Stamford Hill  
 Iddon, Thomas E., Blackpool  
 James, Sara A., Swansea  
 Janes, David R., Dunstable  
 Jepson, Michael H., Birmingham  
 Jocz, John, Hampstead  
 Joffe, Julian, High Wycombe  
 Jones, Audrey R., Meols

Jones, Dilys M., Cardiff  
 Jones, Glenys R. W., Amlwch  
 Jones, Gwyneth I., Newbridge  
 Kanutin, Harold, Westcliff-on-Sea  
 Kapur, Victor J., North Finchley  
 Keeley, Howard, Crewe  
 Keene, Bernard T., Cricklewood  
 Kell, Yvonne E., Southampton  
 Kemp, Jeremy J., Harlow  
 Keough, Jeffrey, Bacup  
 Kingston, Walter W., Redcar  
 Krausz, Ellen H., Paddington  
 Leach, Alan, Manchester  
 Lee, Gordon H., Coventry  
 Lees, Margaret D., Halifax  
 Leuty, George E., Brighton  
 Litchfield, Pauline I., Bristol  
 Luff, George A., Bristol  
 McConkey, Clarice P., Tenterden  
 Marlow, David B., Leicester  
 Marsden, Walter, Bolton  
 Marshall, David, Woodthorpe  
 Matthews, Cynthia M., Plumstead  
 Mendel, Sybil G., Kensington  
 Message, Colin S., Lewes  
 Middleton, Derek E., Coventry  
 Mills, Myra J., Isleworth  
 Mintz, Gerald, Birmingham  
 Mitchell, Margaret G., Salisbury  
 Moore, Anthony R., Brighton  
 Morris, Stanley S., Coventry  
 Mortimore, Roland D., Leicester  
 Morton, Enid E., Leicester  
 Mylrea, Sydney, Manchester  
 Oakes, Audrey E. M., Nottingham  
 Owen, Gomer M., Crickieth  
 Palmer, Kathleen, Clapham  
 Parker, Herbert W., Ross-on-Wye  
 Patel, Manubhai F., Brighton  
 Payne, John S. W., Windsor  
 Peace, Joan C., Exeter  
 Pearson, Constance (Mrs.), Hove  
 Penrose, Kenneth, Sutton  
 Peters, Albert, South Woodford  
 Pickup, Graham, Glossop  
 Platt, Reginald T., King's Lynn  
 Powell, Kenneth N., Chester  
 Priestley, Alan R., Leicester  
 Prior, Ralph J. S., Stoke Newington  
 Raivid, Godfrey S., Hendon  
 Rands, John W., Sutton  
 Read, Joan S., Norwich  
 Rees, John L. D., Cardiff  
 Rhodes, Jeffrey C., Hurstead  
 Richards, Brynley A., Derby  
 Richards, Eric, Newport  
 Richards, Paul P., Birmingham  
 Richardson, Norman A., Wigan  
 Robertson, Alan A., Eastbourne  
 Russell, Sonia L. (Mrs.), Peckham  
 Schimmer, Philip C., Edenbridge  
 Sells, Marion G., Clapham  
 Simpson, Edward, Wilford  
 Simpson, James, Birmingham  
 Smedley, Roy A., Stoke-on-Trent  
 Springer, Hyman, Bethnal Green  
 Stephenson, Robert G., Blackburn  
 Stowell, Flaxney, Castleton  
 Szufraga, Waleska (Miss), Weybridge  
 Tackie, Albert N., Kentish Town  
 Taylor, Sarah E., Golders Green  
 Tennant, Gillian K., Nairobi  
 Thomas, William G., Manchester  
 Thorpe, Dilys, Romford  
 Tidball, Margaret K., Coventry  
 Turpenny, Lester J., Liverpool  
 Vowles, Marion R., Wells  
 Walker, Kathleen M., Leicester  
 Wall, Richard M., Bognor Regis  
 Webster, June, Birmingham  
 Weekley, Eric C. E., Cardiff  
 Whitehouse, Irene D., Shenfield  
 Whitlock, John L., New Malden  
 Wigley, Maxwell G., Cardiff  
 Wilcox, David, Prestwich  
 Wilkes, Jean, Knighton  
 Wilkinson, Anthony J., Tottenham  
 Williams, Betty, Wandsworth  
 Withington, James G., Leigh  
 Wroughton, Robert D., Burton-on-Trent  
 Young, Christina M., Barry Island  
 Young, Mary N., Sutton Coldfield

## BRANCH AND ASSOCIATION MEETINGS

### BIRMINGHAM

#### Growth of Pharmacy under N.H.S.

THE "tremendous growth" of pharmacy as a result of the National Health Service was referred to by Mr. E. A. Brocklehurst (vice-president of the Pharmaceutical Society) at a meeting of the Birmingham branch of the Pharmaceutical Society in Birmingham on January 12. Ten years ago, he said, the average chemist was dispensing fifteen prescriptions a week, which gave a gross profit of 6s. and accounted for one-eleventh of the turnover. Today there were fifty prescriptions a week, giving a profit of 75s., one-third of the turnover. He said that pharmacists were growing very dependent on the Health Service and it was up to them to see that they gave the nation satisfactory service in return for adequate remuneration.

### MERSEYSIDE

#### Women Pharmacists' Activities

SOME forty-seven members of the Merseyside branch of the National Association of Women Pharmacists and their friends attended a theatre supper party on December 14, 1953. At a meeting of the branch in November, 1953, Dr. A. Grunberg (physician-in-charge of the Merseyside diabetic centre) spoke on "The Medico-social aspects of Diabetes Mellitus." Dr. Grunberg said that the recent considerable increase in its incidence had

made diabetes a national problem. He stressed the importance of encouraging patients to view their complaint realistically and of helping them to be active members of the community. There was a growing need for clinics where the newest treatments could be administered and expert advice given. On December 4, 1953, a lecture and demonstration on "The Care of the Skin and the Use of Make-up" was given by Mrs. D. Bond of Yardley & Co., Ltd.

### EXETER

#### Colloids in Medicine

A LECTURE and film display were given to the Exeter branch of the Pharmaceutical Society recently, by courtesy of Crookes Laboratories, Ltd. Following the showing of the film "Colloids in Medicine," the lecturer (Mr. R. T. M. Haines) gave a short historical account of the use of medicinal colloids and detailed the advantages and disadvantages of colloidal drugs. He ended by giving a short summary of the other methods employed at the present day to ensure the slow adsorption and elimination of medicinal substances in the body. A film was shown detailing the production and standardisation of halibut-liver oil. The biennial meeting of the branch at Barnstaple, on December 9, 1953, took the form of a "members' night."



# Burns Treatment Award Claim

## NAVAL DENTIST AND THE BUNYAN BAG

LIEUTENANT-Commander (Dentist) John Bunyan, R.N.V.R., Seymour Street, Portman Square, London, W.1, who devised a method of treating burns with an envelope (the "Bunyan bag") which irrigates the skin with a sodium-hypochlorite solution, claimed an award before the Royal Commission on Awards to Inventors in London on January 14.

The Ministry of Supply agreed that the system was used for the service of the Crown during the war, but argued that the method was not an invention, design, drawing or process within the terms of the Royal Warrant relating to awards; alternatively, the department claimed that it was a medical discovery which should be, and was, published "for the common benefit of mankind."

Lieutenant-Commander Bunyan's counsel said that the Ministry of Supply claimed that all medical inventions were or should be publicly proclaimed as a matter of professional ethics.

LORD COHEN (chairman): It might be more accurately stated as medical inventions by medical men. You might get cases of medical inventions by scientists who are not medical men.

Counsel said that, so far as ethics were concerned, the principle must be confined to the medical profession. "Men outside the medical profession cannot be bound by the same ethics. This question of ethics is of great importance to my client, because he is not a doctor but a dentist."

LORD COHEN: Is it part of your case that there is a lower standard of ethics in the dental profession than among doctors?—No, quite the contrary. It is of great importance to the claimant that it should not be thought that he is doing anything which his professional body in an way thinks unethical. Mr. Bunyan's invention, when originally published, was proclaimed by the highest medical authorities. That aroused a certain amount of opposition, but so far as the General Medical Council was concerned, it was not considered that the claim was unethical.

In the summer of 1940, Mr. Bunyan was in the Royal Naval Volunteer Reserve carrying out research into the treatment of gum infections. He discussed the results achieved and was asked if he would consider the treatment of a leg wound that had been resisting all treatment by the medical authorities. He did so by using for the first time the envelope method of treatment that was the substance of the claim. He made an envelope out of the inner tube of a car tyre, and that was the whole basis of the envelope treatment that came to be so widely used. Having obtained considerable success with this first case, he turned his mind to the treatment of burns.

In August 1940, shortly after his first success, he was on sick leave and in the course of it made further experiments, again with marked successes, and thought it proper to send in an official report on the subject. His report on about September 1940 was

sent to a Surgeon Rear-admiral and also to the Army authorities. About that time there was also a disclosure to the Royal Air Force. It was of particular importance because there were tremendous battle-of-Britain casualties, many involving burns. The treatment was introduced with marked success. In November 1940 permission was given by the Admiralty to disclose the method of treatment to the Royal Society of Medicine. There was considerable further work up to about May 1941, and as Mr. Bunyan's duties as a dental surgeon were deflected there was some disapproval of his doing it. On the intervention of Sir Ernest Graham-Little he was able to obtain, in 1942, his release on indefinite leave without pay. He continued on such leave without pay until the end of the war, obtaining some slight assistance from the manufacturers of the envelopes. He was left with something like £8 or £9 a week to support himself and his family. Eventually he had to sell his dental equipment and received financial assistance from his father-in-law. If Mr. Bunyan had been a service doctor he might have been able to continue with his work with pay.

LORD COHEN: I am prepared myself to assume there is nothing unethical in his making the claim and that if we were to decide to make an award there would be nothing unethical in his receiving it. The real question that worries me is whether, having regard to the practice, this is the kind of question with which we ought to be concerned. Is it not a question of Government policy, which should be dealt with by the Government itself?

Counsel for the Ministry of Supply said that the claim was not for an article but for a method of treatment. The envelope was patented by Mr. Stannard, who manufactured it. The principles laid down by the first Royal Commission with regard to medical discoveries still stood. Lieutenant-Commander Bunyan had done everything, and more, that was expected of him. He had published his method to the world, even in war-time, but that had stripped him of any standing in regard to a claim.

LORD COHEN: Are you arguing that inventors of weapons should receive awards and inventors of cures should not?—No. If he had devised a gun and published in *Armchair Science* a full description of the gun he could not claim an award, even though the Crown took it up and used the gun, because the Germans might do the same.

Counsel stated that Lt.-Commander Bunyan had made no special or exclu-

sive communication to the Crown. They might be glad that the enemy could take advantage of the methods. The method was of benefit to mankind, but the case showed that medical discoveries fell outside the true ambit of the inquiries of the Commission.

Without making the slightest aspersion on Mr. Bunyan, there was no doubt, said counsel, that medical men were both professional men and men with a calling, whose prime office in life was to relieve all suffering. If it were generally known that monetary awards could be claimed, an unfortunate change of attitude might result that was not there now.

LORD COHEN said that allegations had been made about "scurvy treatment" by the Admiralty. If there were any foundation for them he thought that the responsible department might wish to do something, not in relation to the invention, but to make good any hardship Lieutenant-Commander Bunyan had suffered.

Counsel said he was instructed that the Admiralty would look into the matter. Because only one side of the case had been mentioned, it was not to be assumed that there was not another side.

LORD COHEN said that he would be satisfied if the Government department undertook to look into the matter. The Commission would consider its decision on the principles raised, both as regards the ethics and whether Lieutenant-Commander Bunyan's invention or discovery came within the terms of the Royal Warrant. If they found against him they would announce their decision. If they found in his favour a date would be fixed for the further hearing of the claim.

## INQUEST

**Home-made Explosives.**—A verdict of accidental death was recorded at an inquest at Epsom on January 19 on John Jesty, aged fifteen, Chadacre Road, Stoneleigh, Surrey, who died from injuries from an explosion that took place while he and another boy were playing with chemicals on December 29, 1953. The coroner said he hoped that the case would be a warning that there were grave dangers in letting children play with chemicals that were in themselves harmless but in combination might be mortal. Derek Bullock, aged twelve, said he obtained some chemicals from an older boy and went to Jesty's home with some red phosphorus, potassium chlorate, and sulphur. He only knew that the phosphorus was dangerous. He and Jesty mixed the powders together. Jesty sawed a bicycle handlebar in half, blocked one end, and packed the mixture in. Jesty put some paper in, the phosphorus ignited it, and the mixture exploded. Mr. Gerald Cyril Brown, North Cheam, said that he let Bullock have about thirty or forty different kinds of chemicals, including phosphorus. He warned Bullock of the danger, and spoke to his father when he saw him in the same afternoon. A police-sergeant said that Brown had obtained the chemicals quite lawfully from a chemist in the district.



## NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

**W. R. GOOCH, LTD. (P.C.).**—Capital £100. To acquire the business of a chemist carried on as W. R. Gooch. Directors: Annie Gooch and Albert Brown. R.O.: 7 King's Street, Ipswich, Suffolk.

**BENSON, BRENNAN & CO., LTD. (P.C.).**—Capital £5,000. To carry on the business of chemists, druggists and librarians, etc. Directors: Percy J. Brennan and Maura P. Brennan. R.O.: Spencer House, South Place, London, E.C.2.

**BISHOPSTOWN PHARMACY, LTD. (P.C.).**—Registered in Dublin. Capital £5,000. To carry on the business of a pharmacy, etc. Directors: Siobhan O'Sullivan, 4 Elm Bank, Douglas Road, Cork; Bridget O'Sullivan and Dr. T. Owen O'Sullivan.

**E. T. WAVELL, LTD. (P.C.).**—Capital £1,000. To carry on the business of wholesale and retail chemists, druggists, etc. Directors: Edward J. Wavell, M.P.S., and Gertrude E. Wavell, R.O.: 40 Green Wrythe Lane, Carshalton, Surrey.

**SLIMMID PRODUCTS, LTD. (P.C.).**—Capital £10,000. To carry on the business of chemists, druggists, drysalers, oil, etc. Directors: Dr. Bernard Samuels, Louis Marks and Patricia Nevison. R.O.: 40 Hoghton Street, Southport.

**BURNISTON CHEMICAL CO., LTD. (P.C.).**—Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals, gases, insecticides, etc. Directors: George W. Burniston and Hilda F. Burniston. R.O.: Albion Chemical Works, Marfleet, Hull.

**SILVEX TISSUES, LTD. (P.C.).**—Capital £100. To carry on the business of paper manufacturers, manufacturers of and dealers in toilet rolls, paper handkerchiefs, etc. Subscribers: Stanley J. Bressloff and Leonard Gordon. Secretary: R. Sharma, 76 New Cavendish Street, London, W.1.

**LENNOX PEST EXTERMINATORS, LTD. (P.C.).**—Registered in Dublin. Capital £1,000. To carry on the business of manufacturers and distributors of rodenticides, pesticides, insecticides and disinfectants, etc. Directors: David W. Mitchell, 34 Herbert Park, Dublin, and Edwin Croxon.

**BROCKLESBY & WRIGHT (CHEMISTS), LTD. (P.C.).**—Capital £5,000. To acquire the business of chemist carried on by Philip Brocklesby, at 14 High Street, Conisborough, Yorks. Directors: Philip Brocklesby, M.P.S., Doris Brocklesby and Gerald C. Wright, M.P.S.

**P.E.D. MEDICINAL PREPARATIONS, LTD. (P.C.).**—Capital £100. To enter into an agreement with Medicinal Chemicals, Ltd., and to carry on the business of manufacturing chemists, etc. Subscribers: J. Emmitt and E. A. Stroud. The first directors are to be appointed by the subscribers. R.O.: 36 Victoria Street, London, S.W.1.

**GREEN LANES PHARMACY, LTD. (P.C.).**—Capital £100. To acquire the business of pharmacists formerly

carried on by Leonard Hayward, M.P.S., at 873 Green Lanes, Winchmore Hill. Directors: James Kent, M.P.S., Wilfrid B. Jordan, M.P.S., Cyril J. Nunney, M.P.S. R.O.: 873 Green Lanes, Winchmore Hill, London, N.

**MONSANTO PLASTICS, LTD. (P.C.).**—Capital £100. To carry on the business of manufacturers, processors, converters and dealers in all kinds of plastics, etc. Directors: J. W. Barrett, D. R. Mackie, N. F. Patterson, E. L. Pixton, P. A. Singleton and J. W. Urban. R.O.: Victoria Station House, Victoria Street, London, S.W.1.

**T. & F. J. TAYLOR (NEWPORT PAGNELL), LTD. (P.C.).**—Capital £27,000. To acquire the business of a manufacturer of and dealer in mustard, mineral waters, and manufacturing chemist and druggist now carried on as T. & F. J. Taylor. Directors: Frederick T. Taylor, M.P.S., Florence M. Taylor and Albert H. Caustin. R.O.: 36 High Street, Newport Pagnell, Bucks.

**BOSTWICK LABORATORIES, LTD. (P.C.).**—Capital £100. To engage in research, development, manufacture and distribution of chemical composites, medicinal and other products and their application in aerated, air-dispersed, aerosol or other forms for use in industrial, agricultural and medicinal purposes, etc. Subscribers: Ernest W. J. Wood and Allan S. R. Armitage. Solicitors: Stephenson Harwood & Tatham, 16 Old Broad Street, London, E.C.2.

**HOUGHTONS (HOLBORN), LTD. (P.C.).**—Capital £2,000. To acquire the whole or any part of the business, undertaking, property and assets of Johnsons of Hendon, Ltd., and to carry on the business of manufacturers of and dealers in photographic appliances and apparatus, mounts, frames, materials, chemicals, etc. Subscribers: Moira N. Spencer-Hughes and Barbara E. Grove-White. The first directors are to be appointed by the subscribers. Solicitors: Linklaters & Paines, Austin Friars House, London, E.C.2.

## Company News

Previous year's figures in parentheses

**PARKE, DAVIS & CO.,** Detroit, U.S.A.—Mr. W. R. Jeeves has been elected to the board.

**JOHNSONS OF HENDON, LTD.**—Mr. John E. Balmer (home sales manager) was appointed to the board on January 14.

**PURDY MACHINERY CO., LTD.**—Mr. K. G. Bouckley (managing director of the associated company, Farrow & Jackson, Ltd.), has been appointed the managing director of the company.

**A. MILLAR & CO., LTD.,** Dublin.—Profit for the year ended October 31, 1953, after providing for all charges was £19,575. Dividend on ordinary capital is 10 per cent. plus bonus of 4 per cent., less income tax.

**MILTON ANTISEPTIC, LTD.**—Group profits for year ended September 30, 1953, were £82,614 (£77,870), before tax. Net taxed profits were

£22,967 (£21,126). The recommended dividend on ordinary capital is raised to 17½ per cent. (15 per cent).

**NEWTON, CHAMBERS & CO., LTD.**—Mr. P. J. C. Bovill has been appointed assistant managing director (chemicals branch). Mr. R. F. A. Sampson (a local director and general sales manager, chemicals branch) has been appointed London local director.

**WELLCOME FOUNDATION, LTD.**—Mr. A. A. Gray, M.C., B.A., B.Sc. (works director, Wellcome Chemical Works, Dartford), has been elected a director of the Foundation from January 1 and appointed production director from that date.

## BUSINESS CHANGES

**CYCLO CHEMICALS, LTD.,** 376 Strand, London, W.C.2, have opened a new factory at 35 Southville, London, S.W.8.

**HESS PRODUCTS, LTD.,** have opened a London office at 11A Curzon Street, W.1 (telephone: Grosvenor 7382).

## Appointments

**HOWARDS OF ILFORD, LTD.,** Ilford, Essex, have appointed Mr. E. G. Peppiatt, B.Sc., A.R.C.S., F.R.I.C., their research manager in the place of Mr. J. M. C. Fox, M.A., A.R.I.C., who is to devote his whole time to managing the solvents sales department of the company. Mr. R. H. Lock, B.Sc., A.R.I.C., is appointed associate research manager.

**PFIZER, LTD.,** 137 Sandgate Road, Folkestone, Kent, have made the following recent appointments to their staff of medical representatives:—Mr. J. A. Mars, B.Sc., F.P.S., 30 Abercorn Crescent, Harrow, Middlesex; Mr. F. H. Askew, M.P.S., 2 Ashdale Road, Waterloo, Liverpool; Mr. B. J. Phillips, F.P.S., 40 Lowndes Street, London, S.W.1; Mr. C. D. M. Christie, M.P.S., 3 Sidmouth Street, Seaton, Devon; Mr. T. W. Morgan, M.P.S., 17 Northgate Avenue, Macclesfield, Ches; Mr. D. A. Morris, 54 St. Paul's Road, Clifton, Bristol, 8; Mr. J. L. Brady, 67 Corbylands Road, Sidcup, Kent; Mr. S. W. Kipling, B.A., M.P.S., 113 Soho Hill, Handsworth, Birmingham, 19, and Mr. J. D. Ogg, F.P.S.

## OVERSEAS VISITS

**MR. A. R. FINCH** (export manager, W. B. Cartwright, Ltd.) left London by air on January 19 on his first trip to West Africa, Nigeria and the Gold Coast.

**MR. A. GUY BAKER** (sales manager, Richard Hudnut, Ltd.) is visiting Canada and the United States to discuss future developments. He is accompanied by Mr. Humphrey D. Damers (advertising manager).

**MR. E. R. C. EDYVEAN,** B.Pharm., F.P.S. (managing director, British Schering, Ltd.), left Britain on January 13 on an air trip round the world, embracing Pakistan, India, Ceylon, Australia, Mexico and the United States. He expects to return towards the end of February.



## MARRIAGE

**BERRY — BOLTON.** — At St. Philip's Church, Nelson, Lancs, recently, Brian Edward Berry, M.P.S., 130 Reedyford Road, Nelson, to Lilian Bolton, Nelson.

## DEATHS

**BILLINGTON.**—On January 2, Mr. Roland Billington, M.P.S., 125 Sheffield Road, Barnsley, Yorks. Mr. Billington qualified in 1920.

**BOYCOTT.**—Recently, Mr. William Graham Boycott, M.P.S., 34 Imperial Road, Edgerton, Huddersfield, Yorks, aged sixty-five. Mr. Boycott was a director of Ralph Cuthbert, Ltd., chemists, Huddersfield, and a former secretary of the Huddersfield branch of the Pharmaceutical Society. Twice married, he is survived by his widow and a son (by his first marriage).

**BRUCE.**—On January 6, Mr. David George Stephen Bruce, M.P.S., 39 Station Road, Gidea Park, Essex, aged sixty-two.

**BUCKLEY.**—Suddenly at his home, 9 Monteith Drive, Clarkston, Glasgow, on January 12, Mr. Alfred Benjamin Buckley, M.P.S. Mr. Buckley qualified in 1913. A native of Motherwell, Lanarks, Mr. Buckley served his apprenticeship with the late Mr. Daniel Baillie, Brandon Street, Motherwell. Later he acquired the oldest established business in the town—Brown's Apothecary Hall, as it was then known—which is now occupied by Mr. Samuel Hill, M.P.S. Mr. Buckley subsequently moved to Glasgow where he opened a business in Victoria Road.

**GRAVES.** — On January 12, Mr. Herbert Hodgson Graves, M.P.S., 1 Adelaide Road, Surbiton, Surrey, aged seventy-five. Mr. Graves was for forty-eight years a director of Durbins Drug Stores (Surbiton), Ltd.

**HALLIDAY.**—On January 13, Mr. Peter Stewart Halliday, M.P.S., 9 Maitland Avenue, Musselburgh, Midlothian, aged fifty-four. Mr. Halliday was formerly of Huddersfield.

**LUNN.** — On January 2, Mr. Richard Arthur Lunn, M.P.S., 316 Kilburn Lane, Maida Vale, London, W.9. Mr. Lunn qualified in 1922.

**NELSON.**—At his home in Arima, Trinidad, on January 11, Mr. Joseph Francis Nelson, aged seventy-five. Mr. Nelson was a former president and vice-president of the Pharmaceutical Society of Trinidad and Tobago and an active member of the Society until his death. He was mayor of Arima when he died and had held the post for a previous term (1945-46). He was deputy mayor in 1947, an alderman 1938-40 and again 1942-47, and was a councillor for about twenty years from 1915. He qualified as a chemist and druggist in 1906 and started business on his own in 1920, becoming proprietor of the Arima medical hall in 1935. He was awarded the M.B.E. in the Queen's 1954 New Year's Honours.

**PATERSON.**—On October 18, 1953, Mr. Robert Samuel Paterson, M.P.S., 294 Greenhill Road, Mossley Hill, Liverpool, 18, aged seventy-five.

**SANDERS.** — On January 7, Mr. Alexander Wallace Sanders, M.P.S., 58 Stoke Road, Taunton, Somerset. Mr. Sanders qualified in 1905.

**SCORER.** — On January 6, Mr. Frederick Scorer, M.P.S., 10 West View, Burnopfield, nr. Newcastle-on-Tyne, Northumberland, aged forty-six.

**SWINGLEHURST.** — At his home, Grantsfield, Wheatley Lane, Barrowford, Lancs, on January 11, Mr. Arthur Swinglehurst, M.P.S., aged sixty-one. Mr. Swinglehurst had been in business in Barrowford for thirty-two years.

**THORNTON.**—Recently, Mr. Clifford Walton Thornton, M.P.S., 62 Dewsbury Road, Ossett, Yorks, aged fifty. Mr. Thornton had been in business in Ossett for thirty years.

**WATSON.**—On December 23, Mr. William Alexander Watson, M.P.S., Craig - Revack, Grantown-on-Spey, Morays, aged seventy-four.

## PERSONALITIES

**MR. PETER FERGUSON, M.P.S.,** Glasgow, who recently retired as chairman of the Glasgow Pharmaceutical Committee, was presented by local chemists with a Gretton clock in appreciation of his services.

**MR. C. G. DRUMMOND, M.P.S.** (a member of the Executive of the Scottish Department, Pharmaceutical Society) spoke at a recent meeting of the Edinburgh Bibliographical Society on prescriptions discovered during alterations to an old property in Lawnmarket, Edinburgh (see *C. & D.*, 1953. I. 112).

**MR. H. J. JONES, A.R.I.C.,** was recently elected the first vice-president of the Association of British Insecticide Manufacturers in recognition of his long service to the association and to the insecticide trade. Mr. Jones has been an officer of the Association since its inception in 1928 and was its chairman from 1941 to 1945 and from 1947 to 1949.

**SIR W. ARBUTHNOT LANE** (managing director, Kaylene (Chemicals), Ltd.), has been admitted an officer (brother) of the Grand Priory in the British Realm of the Venerable Order of the Hospital of St. John of Jerusalem in recognition of his service in connection with first-aid work. He is commandant-in-chief of the Metropolitan Special Constabulary.

THE following have been elected Fellows of the Institute of Directors: Mr. R. H. Greenly (Thomas Hedley & Co., Ltd.), Colonel B. Holmes-Walker (Geigy Co., Ltd.), Messrs. J. W. Gordon Mitchell (Laporte Industries, Ltd.), H. Sharp (Wolfendens (Chemists), Ltd.), L. S. W. Southon (Southon Laboratories, Ltd.), R. L. Taylor (Johnsons of Hendon, Ltd.), Drs. Denis E. Wheeler (The Wellcome Foundation, Ltd.), and F. J. Wilkins (Glaxo Laboratories, Ltd.).

**MR. R. W. OXTOBY,** who has been appointed general manager of the factory being provided for the Burmese Government by Evans Medical Supplies, Ltd. (see *C. & D.*, 1953. II. 409), was formerly the company's manager

for South-east Asia and for its Singapore house. Mr. Oxtoby joined the Army in 1939, was commissioned from Sandhurst in 1941, and entered the Indian Army in 1942, later being transferred to the Royal Indian Navy as a Lieutenant-Commander. He is already in Rangoon for preliminary discussions with the authorities.

**MR. W. R. JEEVES,** who has been appointed to the board of directors of Parke, Davis & Co., Detroit, U.S.A. (see p. 78) received a pharmacy degree from the University of London in 1921. He joined the London branch of Parke, Davis & Co., Ltd., in 1927, and in 1929 was transferred to the Philippines. Called to Detroit, Michigan, in 1941, as assistant to the foreign sales manager, he served in that post until his promotion to foreign sales manager in 1947. He was appointed director of overseas operations in 1950 and elected a vice-president in 1952. Mr. Jeeves is a member of the United States Council of the International Board of Commerce; the foreign trade subcommittee, U.S. Chamber of Commerce; vice-chairman of the World Affairs Committee, Detroit Board of Commerce; and a director of the Detroit Foreign Trade Club.

**MR. H. G. T. READ,** the new president of the Proprietary Articles Trade

Association, was educated at Woodhouse Grove and Leeds University, where he graduated B.Sc. Mr. Read is managing director of Hirst, Brooke & Hirst, Ltd., Leeds, and of Goodalls (Leeds), Ltd.



The wholesale house which Mr. Read has represented on the council of the P.A.T.A. since 1926 was one of the original supporters of the Association's price-protection system, its then principal, Mr. Benjamin Hirst, being a founder member of the council and later, in 1912, the Association's president. Mr. Read's father, the late Mr. Harold M. Read, was for many years a member of the P.A.T.A. council, and became president in 1924. Mr. Read has served as vice-president since 1951 and for a longer time as a member of the executive committee of the council. For many years he has taken an active part in the affairs of the Northern Wholesale Druggists' Association, of which he was formerly secretary. During the past year, as chairman of the wholesale section of the P.A.T.A., Mr. Read has been concerned with the wholesalers' rate of discount, and submitted the wholesalers' case to the recent conference of manufacturers. Mr. Read has also played an important part in community activities, and acted for two years as chairman of the Leeds Federation of Community Associations. He is an associate member of the Institute of Industrial Administration.



## TRADE NOTES

**Illuminated Stand and New Display-pieces.**—Pharmax, Ltd., The Organ Works, Chislehurst, Kent, have produced the illuminated showstand (below, left), size 13 x 11½ x 17¼ in., to hold two large and three small bottles

N.W.10, are offering a full-size packet of Energen starch-reduced breakfast flakes or a jar of Energen special fruit products to purchasers of Energen rolls. Coupons for exchange by retailers are in Press advertisements.

a pleasant carbonated beverage acceptable to children and those on a limited diet during sickness and convalescence. It contains 5 per cent. glycine to provide assimilable nitrogen and 23.5 per cent. liquid glucose as a source of carbohydrate. Literature is obtainable from the company.



**Appeal Lodged.**—Benefax, Ltd., 10 Sackville Street, London, W.1, state that an appeal has been lodged against the findings in the recent court case at Kettering on the basis of asking the justices to state a case for the High Court. It will be remembered that Messrs. Benefax were prosecuted under the Food Regulations, the defence being that the Regulations did not apply, as Benefax was a pharmaceutical product labelled in accordance with the requirements of the Pharmacy and Medicines Act, 1941, and that the product had been accepted for inclusion in the C.F. list.

**Sweetened Antacid.**—William R. Warner & Co., Ltd., Power Road, London, W.4, announce that they are now using sugar in the manufacture of their Gelusil antacid tablets, with the result that the tablets are more palatable and harder. Recently Messrs.

of Diuromil; and the showcards and crownners (right) linking with current national Press advertising. Requests for the illuminated stands are being dealt with in strict rotation.

**Detergents and Waxes.**—To ensure increased production of Cycloril lauryl sulphates, synthetic detergents, Cyclo emulsifying wax, etc., Cyclo Chemicals, Ltd., 376 Strand, London, W.C.2, have opened a new factory (see p. 78), and have set up a research laboratory in an adjoining building.

**Hair-shade Showcards.**—Rapidol, Ltd., Inecto House, 27 Dover Street, London, W.1, have issued a new series of showcards, designed to make easier the behind-the-counter selling of Inecto shades. Each card shows as accurately as possible a different colour in the Inecto range, and so offers the chemist a simple way of telling the customer what the colours look like. It is planned to issue one card for each colour. The designs are by a New

**Graded Tooth-brushes.**—The "guaranteed grades" of Spa tooth-brushes are hard, medium and extra hard, and not as previously stated. The makers are Spa Brushes, Ltd., Chesham, Bucks.

**Showcard and Leaflet.**—C. L. Ben-card, Ltd., Park Royal, London, N.W.10, have issued the showcard illustrated, and a descriptive leaflet (S. 583) of the same design. Glydexil is sold only through chemists. It has for some time been widely used in hospitals and other institutions, but has not previously been advertised to the public. Advertising is confined to point-of-sale aids to assist pharmacists



Warner introduced the fifty-tablet pack shown. It includes a tube to hold ten tablets that may be carried separately.

### Bonus Offers

**HALEX DIVISION, BRITISH XYLONITE CO., LTD.,** Highams Park, London, E.4. "Free choice" bonus on Halex tooth-brushes.

**CUPAL, LTD.,** Blackburn, Lancs. 15 per cent. discount on orders value £10; 12½ per cent. on orders value £5; 2½ per cent. discount on 1 doz. aerosols, any size; 5 per cent. on 3 doz., assorted sizes.

**SPA BRUSHES, LTD.,** Chesham, Bucks. Bonus offer on 6 doz. Spa Sparklon and bristle tooth-brushes in standard parcel (one parcel and not as previously stated) yields nearly 100 per cent. on cost.

**HARKER, STAGG, LTD.,** Emmott Street, London, E.1. 5 per cent. cash bonus on net value of all orders for Nadrol chloroxylenol-type antiseptic; 2s. 6d. cash bonus sent on return of voucher included in each parcel.



Zealand artist: Archie Dickens. "Copper glow" and "ash brown" are already available (as posters also).

**Sampling Offer.**—As part of a sales campaign in three southern counties, Energen Foods Co., Ltd., London,



The first sign of recovery...

## GLYDEXIL

NOURISHES \* SUSTAINS \* REFRESHES

in recommending and selling the products, and to the leading nursing periodicals. The product combines nutritive and energising properties in



F. C. CALVERT & Co., LTD., Gibbon Street, Manchester, 11. Under a Dan Dare distribution scheme amongst schoolchildren, chemists are paid the full retail price for every tin given away in exchange for coupons issued to schoolchildren through school dental officers.

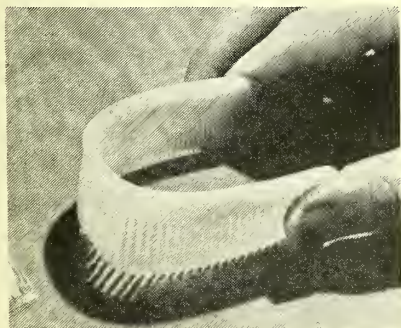
FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1. Special introductory bonus offer for "minor" aspirin remains in force on orders up to January 31. Twelve tubes are invoiced as eleven, less 5 per cent. special display discount; thirty-six tubes are invoiced as thirty-three, less 5 per cent. display discount, less further 5 per cent. quantity discount.

**In Case of Tax Change.**—To avoid any disruption of business between now and Budget day, Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, are making all dispatches of goods in the period January 1 until the day previous to the 1954 Budget statement, inclusive, subject to an extra 4 per cent. discount should any reduction in the existing rate of purchase tax affecting Max Factor cosmetics be announced. In the event of an intermediate Budget statement resulting in a reduction in the purchase tax rate on cosmetics, the special 4 per cent. discount will apply only to goods sent prior to the announced date of rate change. The special contributory discount makes no difference in the company's usual trading terms. The discount, if rendered payable, will be allowed by credit note as early as possible after the announcement.

## NEW PRODUCTS AND PACKS

**A New Fungicidal Cream.**—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, have introduced a new speciality, Fitoban, a fungicidal cream combining zinc undecylenate and phenyl mercuric nitrate for the treatment of tinea infection. Tube of 25 gm.

**Mirror Case.**—Pond's Extract Co., Ltd., Wadsworth Road, Perivale, Greenford, Middlesex, direct attention to their new mirror case for Angel



**AS PLIABLE AS THAT:** The pliability of the new range of Nylon combs produced by Halex, Ltd., Highams Park, London, E.4, is well shown in the illustration. The combs are guaranteed against breakage for one year: any that come to be damaged by normal use during that time will be replaced. The combs are moulded in white and hand-finished. They are individually sealed in "buhhle-pack," and each of the four styles in the range is packed in dozens in counter display cartons.

Face. In cream and gilt, the case "holds everything a woman needs for a perfect complete make-up": mirror, satin-backed puff, and Angel Face combined powder and foundation.

**Air Freshener and Hand Cream.**—J. C. & J. Field, Ltd., 162 New Bond

Street, London, W.1, have introduced two new products: Lavend-air air conditioner; and Care, a "doubly-effective" medicated hand cream. Both products are being extensively advertised, and a generous bonus offer applies to each.

## PHOTOGRAPHIC NOTES

**Home Photography Manual Revised.**—The second edition of *New Home Photography*, the booklet published by Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4, as a help to both beginners and more experienced photographers, has appeared. Of the first, published in November 1951, over 100,000 copies were sold. In the new, enlarged edition there are additional chapters and the whole book has been revised and brought up to date. The booklet sells at 2s. 6d.

**High-contrast Liquid Developer.**—Kodak, Ltd., Wealdstone, Harrow, Middlesex, have made available a new liquid developer, Kodak DX 80, primarily for processing all types of x-ray films. DX 80 is claimed to be the most highly concentrated x-ray liquid developer on the British market today. It offers all the advantages of liquid concentrates at a price less than 10 per cent. above that of equivalent powders. It is issued in 1-gall. bottles. When it is diluted in the recommended proportion of 1 + 4 it makes 5 gall. of working solution.

**Pakolor Film Processing.**—Associated British-Pathe, Ltd., Film House, Wardour Street, London, W.1, announce that, this season, the most modern photo-electronic colour grading is being used in all Pakolor processing laboratories. Pakolor film bearing the following batch numbers is not suitable for grading by the method and should be returned to the company for exchange: 1196; 1197; 1198; 1217; 1218; 1219.

**Photographic Year Book.**—The Johnson Photographic Year Book, 1954, published by Johnsons of Hendon, Ltd., London, N.W.4, has the diary and exposure record section as a separate little booklet within the stiff covers. The technical data and calculator comprise ninety-two pages of invaluable information and guidance on exposure, lens apertures, flashlight photography, depth of focus, colour photography, development times, etc.

**Sound for 8-mm. Film?**—An instrument all photographic dealers should consider taking into stock is the tape recorder. By means of it amateur cinematographers can make a sound recording that may be made to run through in time with the film. To cater for those potential purchasers and other home users Kenton Instruments, Ltd., London, have produced two models of high-fidelity tape recording instrument. A transportable model, the Mark IV, is built into a lidded walnut cabinet fitted to connect with a microphone for direct voice recording or with radio input for recording broadcast programmes; there is a further socket to accommodate an extension speaker. The other model, the console

Mark III, in heavy walnut, is claimed to give recording of a quality unsurpassed at the price of the set. Both instruments have Truvox tape deck, Mark III, and Truvox amplifiers. At a demonstration in London on January 19 an 8-mm. colour film of the Coronation, many hundred prints of which have been sold for silent transmission by home cine owners, was put on with perfectly synchronised commentary provided by the tape recorder. Distribution of the Kenton instruments is by Jonathan Fallowfield, Ltd., 74 Newman Street, London, W.1, whose representatives are trained to give demonstrations to dealers. A descriptive leaflet to awaken the interest of potential home buyers is in course of preparation.

## FILMS

**"Pain in Childbirth" Film.**—A film entitled "Relief of Pain in Childbirth" has been produced by Imperial Chemical (Pharmaceuticals), Ltd., Wilmslow, Manchester, with the co-operation of Guy's Hospital. The film deals exclusively with the method of use of nitrous oxide and trichlorethylene (Trilene) and is primarily intended for showing to pupil midwives, who are expected shortly to be allowed to use those products. The film may also prove valuable in teaching undergraduate students. Good use is made of "live" diagrams, and the various types of machine used in administering the gases are shown, the dangers to be avoided being explained. The film (16 mm., in colour, with sound) runs for twenty minutes and is available on loan to scientific bodies.

**Sound Films in Colour.**—The Wellcome Film Unit has produced two new 16-mm. films, "The Dissection of a Mosquito for Malarial Parasites" and "Pinning Mosquitoes," both in colour, with sound. The first (running time 10 minutes) is a demonstration by Mr. P. G. Shute (Medical Research Council's malaria reference laboratory). It shows the appearance of both oocysts and sporozoites, the sound track describing the phases of the life cycle of the malaria parasite within the mosquito. It goes on to illustrate how the salivary glands of the insect are prepared for examination so that sporozoites can be identified, and how the stomach is removed and the oocysts detected. The second film (running time 5½ minutes) shows how mosquitoes are pinned, staged, labelled for permanent display, and packed for post. It was produced in collaboration with the department of Entomology, London School of Hygiene and Tropical Medicine. The films may be borrowed on application to the Public Relations Officer, Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1.



# PHARMACEUTICAL SOCIETY OF IRELAND

## Monthly Meeting of Council

A MEETING of the Council of the Pharmaceutical Society of Ireland was held in Dublin on January 12, Mr. M. Costello (president) in the chair. Also present were Messrs. P. F. McGrath (vice-president), H. P. Corrigan (treasurer), D. J. Kennelly, G. C. O'Neill, J. Gleeson, C. J. Cremen, P. A. Brady, T. D., T. C. Scott, J. A. O'Rourke, F. J. Robinson, T. B. O'Sullivan and Senator F. Loughman. Mr. J. G. Coleman (registrar) was in attendance. Apologies for absence were received from Messrs. P. Brooke-Kelly, C. D. O'Shea and M. Power.

THE PRESIDENT said he was sure it was the wish of the Council that they should send their condolences to their colleague, Mr. P. Brooke-Kelly, on the death of his sister, whose interment was taking place that day. Members rose and passed in silence a resolution of sympathy with Mr. Brooke-Kelly.

### *Barbiturates Control*

Arising out of the minutes of the December 1953 meeting (*C. & D.*, 1953, II, 611), THE PRESIDENT reported on the results of the recent deputation to the Department of Health on the proposed new regulations for the control of barbiturates. The officers of the Society and the registrar were accompanied by representatives of the Irish Medical Association. The pharmaceutical representatives had proceeded along the lines outlined at the December Council meeting. They had succeeded in getting adopted a submission by Mr. Gleeson with regard to quantity prescriptions. They had also succeeded in safeguarding the traditional rights of pharmacists in the matter of particular sales. The pharmaceutical representatives were responsible for getting the requirements on the issue of barbiturates to hospitals and institutions tightened up considerably. The official attitude was entirely against a "roving prescription" for barbiturates. The medical representatives on the deputation, the president added, had been most helpful and had shown a complete understanding of the difficulties that beset the pharmacist. It was agreed to issue a full account of the new regulations, with explanations, to pharmacists following publication of the final official draft. MESSRS. O'SULLIVAN, O'ROURKE and other members of Council congratulated the president and the other members of the deputation for what they had achieved in the interests of pharmacy.

SENATOR LOUGHMAN, referring to the minutes of the previous meeting, reported that, with Senator Teehan and Deputy Brady, he had seen the Minister for Agriculture about the proposed legislation to control the sale of veterinary drugs, and had emphasised to him the rights and privileges of pharmacy in the sale of such drugs. The matter had been fully discussed, and the Minister had agreed to receive a deputation from the Society on the matter. The Council directed the registrar to write asking to have the deputation received as early as possible. It was agreed that the deputation should consist of the officers of the Society with Senator Loughman, Messrs. Brady, Kissane, and Power, and Senator P. Teehan.

Seasonable greetings were received from the Archbishop of Dublin; the presidents of the Pharmaceutical Societies of Great Britain, Northern Ireland, Western Australia, the Victorian College of Pharmacy, the Irish Drug Association, the Photographic Dealers' Association, the chairman of the Wholesale Drug Federation of Ireland, *La Real Academia de Farmacia*, Madrid, the Lord Mayor of Dublin, the commissioner and officers of the Civic Guards, the editors of *THE CHEMIST AND DRUGGIST*, the *Pharmaceutical Journal*, and *British and Overseas Pharmacist*, the Irish Pharmaceutical Students' Association, and An Bord Fáilte (the tourist board).

THE REGISTRAR reported that on December 21, 1953, he had written to the Department of Health saying that his attention had been drawn to the newspaper report on the supply of antiseptic fluid in mistake for cod-liver oil (see *C. & D.*, January 2, p. 3). The mistake was made by a voluntary helper at a clinic. He stressed in the letter that the Society had constantly maintained that only qualified persons should be entrusted with the handing out of medicines. A reply stated that the registrar's representations in the matter had been noted. THE PRESIDENT pointed out that Deputy Brady had also taken action in the matter by having a motion brought before the Dublin Corporation (see *C. & D.*, January 16, p. 51). MR. BRADY said the matter had been referred to the Public Health Committee with the object of getting a report on the incident. MR. O'ROURKE said the handing out of medicines by untrained personnel should not be permitted. The fact that notice was taken now would make those people more careful.

Mr. Brendan Smith (secretary, Irish Drug Association) wrote that at the previous meeting of his committee he had been instructed to draw the Council's attention to the manner in which ethical medicines were being supplied by hospitals throughout the country to both in- and out-patients. It appeared that those medicines were supplied at times on doctor's prescriptions, and at other times in original packings. The price varied from current retail down to any price asked by the person handing out the medicine. In several instances reported to the Association no pharmacist had been employed.

### *Trading by Hospitals*

THE REGISTRAR said Mr. Smith had mentioned to him that he had had requests from two hospitals for copies of the I.D.A. price list, so that they might know what to charge. The matron in one hospital had taken away her account from a pharmacist in order herself to buy wholesale. MR. O'ROURKE said it was a serious matter for a hospital to become a sort of trading corporation. The situation was getting out of hand. It was never intended that hospitals, many of which were subsidised, should enter into competition with the pharmaceutical profession for the supply of medicines. It was unfair and unjust that those institutions, without restrictions or overheads, and rate-free, should be permitted to do it. MR. O'NEILL said the trouble was how to overcome the difficulty. A well-to-do customer of his own had been getting tablets at less than cost price from a hospital. MR. MCGRATH asked whether a hospital was entitled to keep open shop for the sale of drugs. The matter had come up sixteen years ago; when the registrar then pointed out the legal aspect, the practice had stopped at certain hospitals. MR. O'ROURKE said some of the hospitals were using such sales to cut their losses. Pharmacists were up against the differences between State and voluntary hospitals. THE PRESIDENT said they could return to the matter at the next Council meeting, since it was tied up with the Health Act, which would then be discussed.

A letter was read from the International Federation of Pharmacy asking for assistance for the Greek Pharmaceutical Association following the recent devastation caused by earthquake to their islands. After hearing a statement on the matter from Senator Loughman, who was an Irish delegate to the Council of Europe, the Council decided that the question of a contribution was one for the Government.

Mr. T. C. Denston (secretary, British Pharmacopoeia Commission) wrote inviting the Society's co-operation in examining the scope of the next additions to the B.P. Mr. Denston enclosed lists of drugs under consideration for



retention in, deletion from, or addition to the Pharmacopoeia. A reply was requested not later than March 31. It was agreed to have the matter gone into.

Correspondence was read from Dr. Michael Tierney (president, University College, Dublin) under which, by arrangement, a practical course in pharmacy for medical students of U.C.D. is being given at the College of Pharmacy by Professor R. Timoney. The University undertook to pay the professor's fee and reimburse the Society for expenses incurred in the use of its laboratories and supply of drugs.

Changes of address were notified for Messrs. C. Cassidy, M.P.S.I., to Church Street, Clarendon, co. Mayo; and F. Walsh, M.P.S.I., to 1 St. Mary's Terrace, Taylor's Hill, Galway. The following who submitted L.A.H. certificates were granted registration as pharmaceutical chemists: Drs. Awon, Christian, Trevor Winckworth, and John W.

Mangan. Mrs. Margaretta Gleeson and Mr. Patrick Dermot Gormley were elected members of the Society, and the following were nominated for membership: Mr. F. A. O'Carroll, Ardfer, Tralee, co. Kerry; Drs. John W. Mangan, Dunmore, co. Galway; and Ferdinand Christian, Southport General Infirmary, Southport, England.

The reports of the House, Law, Schools, and Certificates and Declarations Committees were submitted and approved. Arising out of the latter report THE REGISTRAR mentioned that forty-four candidates had entered for part I of the January Licence examination and sixty-five for part II. Only four entries had been received for the Assistants' examination. Visitors were appointed to the January Licence examination.

At a meeting of the Benevolent Fund Committee held at the close of the Council meeting some grants were passed for payment.

## PROPRIETARY ARTICLES TRADE ASSOCIATION

### Quarterly Meeting of Council

A (QUARTERLY) meeting of the council of the Proprietary Articles Trade Association was held in London on January 14, the president (Mr. R. G. Dyas) in the chair at the commencement of the meeting. THE PRESIDENT expressed regret at the death of Mr. G. A. Mallinson. On many occasions, he said, Mr. Mallinson had been an honoured guest at their luncheons and had often expressed his appreciation of the Association's work. The president also referred to the death of Mr. F. A. S. Gwatkin (who had acted as the Association's solicitor for many years).

#### New Members Welcomed

The president welcomed the newly-elected members of council: Messrs. T. Marns and G. H. Walker. Mr. Marns, he said, followed in the footsteps of his father who had been one of their most esteemed colleagues. In the retail section Mr. Walker, who had been active in pharmaceutical life in the Birmingham area, would follow the tradition of Mr. H. H. Marshall.

A letter from Mr. E. H. Lambert (Parke, Davis & Co., Ltd.) tendering his resignation from the executive committee and the council was received. Mr. Lambert, who was taking up an appointment in South Africa, was thanked for his past services and wished every success in his new position.

A full report of the discussion at a conference of manufacturers held in December had been considered by the manufacturers', wholesale and retail sections at their respective meetings. [A report of that conference is given below.] THE PRESIDENT said that, although no specific solution to the wholesalers' problem had been found, it was generally agreed that the conference had served a very useful purpose and it had been suggested that similar conferences might be held at more frequent intervals.

On behalf of the wholesale section, Mr. N. E. FORSTER proposed that Mr. H. G. T. Read should be elected *President* for 1954-55. As a member of the executive committee and as chairman of the wholesale section Mr. Read had shown the qualities of statesmanship which he would need as president, and his nomination had been unanimously

supported by his section. The motion, seconded by MR. H. G. MIDDLETON and supported by MR. D. A. REES, was passed with acclamation. MR. READ then took the chair and thanked the council. He had, he said, always taken a deep interest in the affairs of the Association from very early days. He would endeavour, impartially, to further the interests of all sections of the Association.

Mr. Read said that his first duty was to move that the thanks of the council should be accorded to the retiring president for his services during the past year. Mr. Dyas had conducted the affairs of the council with outstanding ability. It had been a difficult year, especially characterised by matters relating to the wholesalers' problem, and the outgoing president had shown conspicuous tact and impartiality. The vote of thanks was accorded with enthusiasm. MR. DYAS expressed his appreciation of the support he had received from all sections and from the secretary and staff.

The following officers were also elected: *Vice-presidents*, Messrs. N. Dewey (manufacturers), L. D. Smith (wholesale), D. A. Rees (retail); *Treasurer*, Mr. R. G. Dyas.

The secretary's quarterly report on price maintenance referred to certain cases of persistent price cutting in the London area and the steps being taken to deal with them. Some important sources of supply had been traced. During the period 480 calls and 500 test purchases had been made by P.A.T.A. investigators. The report was approved. It was agreed that the next meeting should be held on April 8.

#### Manufacturers' Conference

A REPRESENTATIVE meeting of the members of the manufacturers' section of the P.A.T.A., convened to discuss the wholesalers' discount question, was held in London on December 11, 1953, the president of the Association (Mr. R. G. Dyas) in the chair. THE PRESIDENT, welcoming the delegates, said that the wholesalers' representations regarding their rate of discount had been considered by the council for more than a year and had been transmitted to all manufacturer members for consideration. He emphasised that the

three sections of the P.A.T.A. had worked together in harmony for more than fifty years to their mutual benefit and that nothing should be allowed to affect the continuance of that spirit of amicable co-operation. MR. H. G. T. READ (chairman, wholesale section) presented the case for the wholesalers and concluded by saying that the wholesalers now placed themselves in the hands of the manufacturers, to whom they appealed for continued support as in the past and for a favourable response to their request. MR. N. DEWEY (chairman, manufacturers' section) said the manufacturers were themselves in a difficult position and would have to discover whether they could find the extra 2½ per cent. which the wholesalers required to conduct their business. MR. D. A. REES (chairman, retail section) said that neither the manufacturer nor the retailer could conduct his business without the wholesaler. He hoped that a satisfactory solution would be reached.

Finally, the meeting expressed its appreciation of the opportunity given to the manufacturers to discuss the subject and of the manner in which the wholesalers' case had been presented. Whilst no actual solution of the wholesalers' discount problem was reached the conference was regarded as having served a useful and helpful purpose.

#### N.H.S. STATISTICS

In ENGLAND during March 1953, 19,601,729 prescriptions (11,395,244 forms) were dispensed at a total cost for ingredients, fees and containers of £3,967,813. The average total cost per prescription was 48·58d.; the average dispensing fee was 12·64d.

In EAST SUFFOLK in the year 1952-53 the Pharmaceutical Service Committee dealt with three cases arising out of test prescriptions. In two cases cautions were given, in the third no action was advised. The Council's pharmaceutical list comprised forty-nine pharmacies, two drug stores and two surgical appliance suppliers. Approximately 556,066 prescriptions were dispensed during the financial year compared with 567,476 the year before. Payments to chemists totalled £104,207 compared with £113,281 in 1951-52.

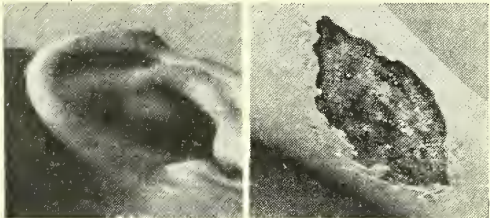




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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

## A Quarter-century of Narcotics Control

IN its report to the Economic and Social Council of the United Nations, published in Geneva on January 11, the Permanent Central Opium Board reviews its work over the past twenty-five years. During that period the quantity of raw opium used licitly for non-medical purposes has fallen from 1,585 tons to 166 tons.

In 1929, world production of morphine was 55 tons; in 1952 it reached 75 tons, 90 per cent. of which was used for the manufacture of other drugs—mainly codeine and ethylmorphine. The production of morphine for use as such fell from 13 tons in 1929 to 7 tons in 1952. Production of cocaine fell during the same period from 5,700 to 2,140 kilos, yet no shortage was felt in the licit market. The most striking fall has been in the production of diacetylmorphine from 3,620 kilos in 1929 to 120 kilos in 1952.

The report states that, before international control machinery was created, traffickers and drug addicts were able without great difficulty to obtain supplies from licit manufacturers and traders. Today, their access to such sources is barred. Yet a considerable illicit traffic still exists and it even appears to have had some revival during the past three years. Clandestine production of Indian hemp continues to present a serious problem. The Board is concerned to know how countries producing raw opium calculate their figures of stocks, whether by regular inventories involving weighing the opium and calculating its moisture content or by other means. Information on those matters is shortly being sought from Governments concerned. Statistics on coca leaves are stated to be far from satisfactory, the main producing countries (Bolivia and Peru) not having supplied the information which the Board wants. Statistical control, particularly on possible diversions of morphine and heroin from licit to illicit channels, is expected to be aided by scientific research at present proceeding on the morphine content of opium. Statistics for the United Kingdom for 1952, given in the report, include the following:—Production of morphine, 11,757 kilos (2,295 kilos less than in 1951 and 15.5 per cent. of all production); manufacture of cocaine, 277 kilos (69 kilos more than in 1951 and 12.9 per cent. of all production); morphine converted into codeine, 9,859 kilos; into ethylmorphine, 175 kilos; diamorphine, 88 kilos (73.3 per cent. of all production); thebaine, 93 kilos; pethidine, 2,189 kilos (18.8 per cent. of all production); and methadone, 181 kilos (47.5 per cent. of all production). Consumption of morphine, 779 kilos (15.36 kilos per million inhabitants); of heroin, 91 kilos (1.79 kilos

per million (2.38 in 1951)); of codeine, 7,626 kilos (150.37 per million); of ethylmorphine, 127 kilos (2.5 per million); of cocaine, 167 kilos (3.29 per million); of pethidine, 944 kilos (18.61 per million (in 1948 8.36 kilos)); and of methadone, 93 kilos (1.83 per million—a reduction of 0.1 kilo from 1951).

The danger of a recrudescence of the illicit traffic has always to be thought of, and the faulty information given by some countries is much to be regretted. Nevertheless, narcotics control remains a field in which international co-operation has been, on the whole, conspicuously successful, and all responsible citizens will wish it complete success in the future.

## New Protection for Shop Tenants

THE Landlord and Tenant Act, 1927, which conferred rights to recover compensation for goodwill and to the grant of a new lease, had a limited application to tenants of trade and business premises. The Leasehold Property Acts, 1951 and 1953, were even more limited, since they merely afforded temporary protection against eviction and further applied only (virtually) to retail shops. The new Landlord and Tenant Bill on the other hand proposes not only to ensure more permanent security of tenure, but to apply to a wider class of tenant, i.e., tenants renting premises for the purpose of a trade, profession or employment, including any activity carried on by a body of persons whether corporate or incorporate.

So far as compensation for goodwill and the grant of new leases are concerned, the Landlord and Tenant Act, 1927, will become a dead letter when the rule becomes law, except for the right, conferred by that Act, to compensation for improvements.

Shop tenancies will automatically continue, unless terminated in the special manner provided. If the tenancy is one which, in the normal way, would automatically expire by effluxion of time, the landlord can only terminate the tenancy by serving a notice within six or twelve months for a date to expire not earlier than the automatic date of expiry. If the tenancy is determinable by notice to quit, a notice of similar length must be served by the landlord to expire not earlier than a date on which the tenancy could have been normally terminated by notice to quit served at the date of such service.

Except in cases where the landlord serves statutory notice of termination, or the tenant makes a request for a new tenancy, the current tenancy will automatically continue.

Only tenants for terms exceeding one year, who have not given or received statutory notice of termination, may make a request for a new tenancy, a course they no doubt would want to take if they should desire more permanent security of tenure. A new tenancy may be ordered to be granted for a term not exceeding fourteen years.

The tenants' request for a new tenancy must be for a tenancy to begin at a date between six and twelve months after the request, but not earlier than the date on which the current tenancy would normally expire by effluxion of time.

The request must set out the tenant's proposals for the new tenancy, including the rent and other terms. Within two months of receipt of the request the landlord may give the tenant notice that he will oppose



a Court application for the grant of a new tenancy; the notice must state the grounds of objection.

The grounds of objections include non-repair of the property in breach of covenant, persistent delay in payment of rent, improper use or management, failure by the tenant to exercise an option for renewal, the existence of suitable alternative accommodation, the requirement by the landlord of possession for the purpose of demolition or reconstruction or for the purpose of his own business.

If the Court directs the grant of a new tenancy, it will determine the rent, the length of the term, and the other terms and conditions. If the tenancy is refused on certain grounds that include the grounds that the landlord requires possession for demolition or reconstruction, or for the purposes of his business, the Court may award the tenant compensation, which, however, may not exceed double the amount of the rateable value. Compensation for improvements may be granted,

as before, only in respect of tenancies of premises used for the purpose of a trade or business. The time for making claims for compensation is to be altered. It will be:—In the case of tenancies expiring automatically, within between four and six months before the date of such expiry, and in other cases within two months from the date of the notice to quit.

There are also a number of miscellaneous amendments proposed to the general law of landlord and tenant.

Among them are the extension of the restrictions on the requirements of the execution by a tenant of repairs. Then restrictions were imposed by the Leasehold Repairs Act, 1938, and the benefits of that Act are to be extended to tenancies of any class of property and without regard to rateable value, and they will be able to be claimed where, among other things, the tenancy was for at least seven years, of which at least three years remain unexpired.

## CORRESPONDENCE

*Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.*

### SIDE-EFFECTS OF A DISPUTE

SIR.—It has come to the notice of the committee of the Association of Glasgow Pharmacists that a disagreement exists between the wholesale section and certain members of the manufacturing section of the Association of British Pharmaceutical Industry. We are not concerned with the cause of the dispute, but our retail members are vitally concerned with its effects. The members of the wholesale section have decided that, until their terms are met, they are not prepared to handle any new preparations (except antibiotics) marketed by these firms. That has resulted in prescriptions being presented to chemists that cannot be dispensed expeditiously because the new preparations ordered on them are not available through the local wholesaler. Members of the manufacturing section of the A.B.P.I. are continuing their medical propaganda recommending the prescribing of new products, but without making reference to the difficulty which the pharmacist will have in obtaining some of them quickly. The difficulty may be overcome only by an immediate direct order to the manufacturer concerned, with consequent delay. We regret that more information has not been made available to the dispensing pharmacist. We are also concerned about the danger of this dispute interfering with the efficiency of our pharmaceutical service; we therefore deplore the lack of foresight on the part of the A.B.P.I. in allowing such a situation to develop.

ROBERT DONALD, *Secretary*  
GLASGOW, C.5  
ASSOCIATION OF GLASGOW PHARMACISTS

[The A.B.P.I. state that they received the letter from Mr. Donald and have replied pointing out that no decision against handling new ethical proprietaries has been put into operation by the wholesalers' group of the Association. Mr. Donald's letter is being given the attention of the group, and of the ethical manufacturers' division of the Association, in the hope that it will help any individual firms concerned to find a satisfactory solution, so that inconvenience to retail pharmacists will be avoided.—EDITOR.]

### ROTA HOURS

SIR.—In Londonderry two former chemists have been removed from the register for "conduct of such a nature as to render them unfit to be on the register." Their "crimes" were that they dispensed prescriptions between 7 and 8 p.m., that being the rota hour fixed by the General Health Service Board, and that they thereby "broke an agreement with their colleagues." The shop hours for chemists in Londonderry are 9 a.m. to 7 p.m., early closing day 1 p.m., one late night 9 p.m. (the latter in practice being usually 8 p.m.). After the introduction of the Health Service, complaints were heard from some chemists that others were dispensing after hours. The Londonderry

Chemists Association asked for a rota service, and a meeting of all local contractors was called which resulted in a decision by a majority vote—to introduce a rota. The hour was fixed at 8.30-9.30 on week nights and 7-8 on Sundays and holidays. After a time, as the desired result did not take place the Londonderry Chemists Association asked to have the hour changed to 7-8 p.m. It should be noted that not all local contractors are members of the Association. The change was agreed to by the Board. Thus the closing time for all Londonderry chemists, except three, is, on Saturday night, 8 p.m. On Friday night those remaining three are open until 8 p.m., so that a rota was made that is inside normal working hours on two nights a week. Around February 1953, the Londonderry chemists laid the complaint that chemists were "breaking" the rota, and threatened to refuse to work it unless action was taken. The Health Service attitude is that, so long as a man does his agreed service, any service he gives over and above that amount is his own concern. If they control and pay for the rota and feel like that; how can any outside body class "breaking" it as any type of offence?

LONDONDERRY

E. O'HARE

[The time limit for an appeal against a decision of the Northern Ireland Statutory Committee (*C. & D.*, 1953.II.388) expired recently. One name has been restored (see p. 74).—EDITOR.]

### WARFARIN RODENTICIDES

SIR.—Whilst I have no wish to enter into public correspondence with Mr. Harley Watkins of Sorex (London), Ltd., I should nevertheless be grateful if you would permit me to make my final observations on warfarin in general and Mr. Harley Watkins' letter in particular. To my mind, it is difficult to say for certain who was the first scientist to be researching in any particular sphere. Whilst it is not disputed that Dr. O'Connor did indeed report the successful use of dicoumarin in rodent control in 1948, the fact remains that in 1933 Professor Link, of the Wisconsin Foundation, was working on the cause of "sweet clover disease" in cattle. According to the United States Fish and Wildlife Service, it was in Professor Link's laboratory that the causative agent of the disease was determined; it was to be known as "dicoumarol." In the search for a derivative of "dicoumarol" having a faster action than the latter, compound 42, later called "warfarin" (coined from the initial letters of Wisconsin Alumni Research Foundation) was synthesised in 1942. The work, interrupted by the 1939-45 war, was resumed in 1947, at which time the chemical was found to be lethal to rats and mice when incorporated in their diet. In co-operation with the U.S. Fish and Wildlife Service, experiments were undertaken under practical field conditions, and in June 1950 warfarin was released for



general distribution. The United States patent on warfarin was granted to the Foundation, and applications have been made for the registration of the name warfarin in many countries of the world, including the United Kingdom. C. F. Gerhardt, Ltd., own the trademark Warfarin in Ireland, and the mark has been granted to the Foundation in several other countries. The Foundation licensed S. B. Penick & Co., New York, to manufacture warfarin commercially, and the company's product is known as Dethmor throughout the world. Dethmor is manufactured in the United Kingdom by C. F. Gerhardt, Ltd., under an arrangement with S. B. Penick & Co. It conforms not only to the rigid technical standards of the Foundation but also to the specification of the Ministry of Agriculture and Fisheries. It was the company's intention to make this effective product available to the general public in the form of a proprietary article (as well as in bulk to local authorities). That we have done. Supported by extensive national Press advertising, Dethmor and Pied Piper have become regular stock lines in thousands of pharmacies throughout Britain. In conclusion, may I point out that C. F. Gerhardt, Ltd., is a British company, having been in the pharmaceutical trade in this country since 1864, that Dethmor and Pied Piper are British made, but, unlike those of Mr. Watkins' claim, are based on the original American discovery. We must "give the devil his due," after all.

C. F. GERHARDT, LTD.  
GORDON ARCHER, *Director*

LONDON, E.C.3

## Onward from Galen

### A CURRENT CAUSERIE

WHEN the retention fee of the pharmacist—or rather, in strict modern parlance, pharmaceutical chemist—was recently increased to £3 13s. 6d. (*C. & D.*, 1953, II. 529) the Council of the Pharmaceutical Society took the opportunity, it will be recalled, of introducing a system of differential rates whereby members of the Society under seventy years old and not regularly engaged in the practice of pharmacy might pay a retention fee of £2 2s. only. One effect of that sensible policy may be to keep on the register the names of many who do not want to practise pharmacy full-time but who could, perhaps, easily be persuaded to help out in an emergency. The task of engaging a locum at short notice in case of illness or accident is far from easy, and there must be many pharmacists, particularly married women, who have previously hesitated, for financial reasons, to have their names retained on the register. But while the new concession goes some way to persuade them, does it go far enough? Schemes for the establishment of an emergency locum list—such as one recently put forward to its members by West Middlesex Chemists' Association (see p. 75)—secure a useful service to the community, and every effort should be made to remove obstacles in the way of the success of such efforts.

★

WHILE there will be no chemical section of the British Industries Fair in either London or Birmingham this year, the Association of British Chemical Manufacturers will have a composite stand in Birmingham to accommodate some twenty member firms. There will, of course, be the usual chemical exhibitors in the food, plastics, etc., sections at Earls Court, London. The question of the chemical section's future is still in the balance. The experience of the A.B.C.M. in Birmingham in 1954 will no doubt be decisive. The whole question of fairs and exhibitions is engaging industrialists in many fields, owing to the relatively high cost of the exhibition method of promoting sales. They must be quite sure before taking space that the result will be worth while. That applies both to fairs held in Britain and to those organised overseas. In the autumn of 1953 an export sales conference organised by the Federation of British Industries agreed that trade fairs and exhibitions were valuable, but held that firms must be selective in deciding in which fairs to participate. Short lists might be

drawn up of those most suited to particular industries. The conference urged that the display of British goods in Continental fairs should be in the appropriate trade section, so that the goods could be compared directly with those of competitors, rather than in a separate British pavilion. The value of long-term educational promotion (supply of laboratory equipment and text-books to foreign universities; training in this country of overseas graduates; and the wider distribution overseas of British trade and technical journals) was a matter requiring equally careful study. Britain's interest was held by F.B.I. members to be in an expansion of world trade as a whole, rather than in competing for larger shares of an existing volume of trade, and it was pointed out that more capital investment overseas was the means through which that expansion in world trade must come.

★

THE ways in which diseases are spread are many, and almost any suggestion as to how any one of them may be eliminated is worthy of attention. An article in the January issue of the *Practitioner* suggests that all toilet papers on the market are made of pervious material and, therefore, are likely to permit contamination of the hands when used. Among the diseases the causative organism of which is found in human faeces particular emphasis is placed on poliomyelitis. The virus is capable of resisting removal by the normal procedure of washing the hands after defaecation (which, states the article, is performed in less than 1 per cent. of cases). Other diseases mentioned as being conveyed by faecal stains are the typhoids and dysenteries. The suggestion is made that manufacturers should try making toilet paper water- and grease-proof. Should the process prove more expensive than the existing one, even a subsidy is considered by the writers of the article to be justified. Hitherto, the main criteria in the selection of paper for making into toilet rolls and packs have been softness, toughness and pliability. Whether such papers, though permeable, are made capable of preventing the spread of disease if impregnated with an antiseptic (as many, in fact, are) would also be worth detailed study.

## NEW BOOKS

### Pharmaceutical Pocket Book

*Pharmaceutical Press*, 17 Bloomsbury Square, London, W.C.1. 7½ x 5 in. Pp. 422. Sixteenth edition. 18s. 6d.

THE most obvious change from the previous edition, demanding the purchase of a new copy by all old users of the "pocket book," is that all the material is related to the 1953 Pharmacopœia. But a bonus of good value is provided by the expansion of the chapter on hydrogen-ion concentration from five to thirteen pages; by the replacement of the section on bacteriology by an equivalent number of pages on microbiology, with descriptions of culture media and bacterial stains; by the expansion of the former brief notes on isotonic solutions into a chapter; and by modernisation of the section of dispensing, in which examples of methods of calculation are now included.

### Chromatographic Methods of Inorganic Analysis

F. H. POLLARD, B.Sc., Ph.D., and J. W. F. MCCOMIE, M.A., D.Phil. *Butterworths Scientific Publications, Ltd.*, 88 Kingsway, London, W.C.2. 8½ x 5½ in. Pp. 192. 30s. (by post one shilling extra).

THE principles of chromatography are explained in non-mathematical language. Fifteen inorganic and twenty-two organic solvent mixtures are listed and the uses outlined. Two complete schemes of qualitative analysis are supplemented by the full statement of several well-tried quantitative estimations. Apparatus required is described in some detail. Even such points as the preparation and conditioning of the paper for chromatograms are carefully dealt with. The book is essentially introductory and practical. Its appeal is to students, industrial chemists and research workers alike. There are a coloured frontispiece (examples of chromatograms), three plates on art paper, numerous diagrams, author and subject indexes.



# FROM "LIVING-IN" TO T.S.A. DISPENSING

Reminiscences of pharmacy  
through twelve editions  
of the "Art of Dispensing"

By J. H. GOUGH, Ph.C.

THE new edition (the twelfth) of the "Art of Dispensing" recalls my early days in pharmacy. I was apprenticed to Mr. W. B. Trick, 92 Green Lanes, Stoke Newington, London, N., in January 1887, and it was in the early days of my time that I came across the 196-page first edition, and from it I learned a good deal



about dispensing. Some details as to the working of a pharmacy in those days may interest your readers. The assistant and I lived in the house with Mr. and Mrs. Trick and their family of two boys. We opened shop at 8 a.m. Breakfast was on the table and while taking it we had to serve any customers who came in. Dinner and tea were taken in the same way. At 8 p.m. we drew down the blinds but left the light on and the door on the bell and then sat down to supper. At 9 p.m. the assistant was off duty, and went across the road to the "Pegasus" for his ale. I did some reading in the back-room, and any stray customers fell to my lot. It was allowed one hour off in the morning to wash and dress after dusting, and for exercise, which I took in Clissold Park and read some chemistry in Attfield, and botany in Bentley. In the winter of 1887 I attended classes at the Highbury Institute in botany (vegetable physiology and morphology) under Mr. Savage, from whom I received my introduction to field botany. On his holiday in Devon he had collected a quantity of wild flowers, including some rare ones. They had been preserved in methylated spirit, and from them we made dissections and worked out the parts of the flowers. In the winter, when no fresh flowers were available, that work was invaluable. In the spring I gained certificates in both subjects from South Kensington.

## Weary Journeys

In the following winter I attended classes in theoretical and practical chemistry at the Polytechnic in Regent Street, London. It was worth while but a weary journey by tram and bus from Regent Street to Green Lanes, arriving about 11 p.m. We made all those tinctures of the British Pharmacopoeia that were prepared by simple maceration. Acetum scillae was a trial, as the marc had to be pressed by hand. It formed one of the ingredients of our famous Tussicon—a preparation still on the market. Another of our famous proprietaries was Phthisicon, a cod-liver oil emulsion. I had to prepare it with an emulsifier actuated by a small Biscop gas engine and in doing

so in my early days spoil two suits of clothes. Our laboratory was a shed in the back yard, in which we also filled syphons of aerated waters using compressed carbon dioxide.

While clarifying honey in an extemporised water bath (a gallipot in a saucepan of boiling water). I was anxious to see how it was getting on and pulled the scum back, finding it hot I plunged my finger in the surrounding water, only to find it hotter! I had to pack pills in "pink out" pill boxes—pennyworths and larger. Pil. cochia was in a stick of six, unrounded, formed by pressing a pipe of the mass on the pill cutter. These, together with quantities of Seidlitz powder, aperient and worm powders for various ages, had to be ready for our Saturday night rush. We sold a lot of quince seeds from which the Victorian ladies prepared bandoline to fix their "bandeaux" (curled ringlets). A well-known writer on wines was puzzled by the word bandoline which he thought referred to some liqueur, and was disappointed when he learned the true meaning of the word.

I was visiting Mr. Trick when he was getting out the prospectus of Lewis & Burrows, Ltd., Mr. Trick's second name was Borrow, and it was thought that Burrows sounded better, so it was adopted in the registered name of the company. Some years after I had left Mr. Trick and I was at Leeds he invited my wife and me to see the new Lewis & Burrows pharmacy in Great Portland Street. Afterwards we had lunch together at Frascati's. As he took off his overcoat he was seen to be in evening dress, for which he apologised, explaining that he was a member of the Proscenium Masonic Lodge, the members of which were actors. The lodge meetings had therefore to be held before the theatres began. Years afterwards on my way back from the Edinburgh meeting of the British Pharmaceutical Conference I called to see him. He was in bed, and well cared for by his old housekeeper, and insisted on having a bottle of his favourite white wine to celebrate the occasion.

## A.B.C. Mixtures

After my apprenticeship I joined Mr. George Goodliffe at Rendezvous Street and Dover Road, Folkestone. Those pharmacies did the dispensing for Dr. Tom and Dr. Fred East. It was almost like National Health Service dispensing. There was no National Formulary to work to but a number of private formulas under the name of mist, A, B, C, etc. Mist. B I always remember. It consisted of ferri et ammon. cit. with spt. ammon. co. and spirit chlorof. The two spirits—they were cheaper then—were common to many mixtures. At 10 a.m., 2 p.m. and 6 p.m. the book containing the list of medicines for each patient was fetched from the consulting rooms and work on them kept us busy morning and evening. We opened for an hour on Sunday morning. All the takings then were the perquisite of Mrs. Goodliffe. In those days there was a delivery of letters on a Sunday, and we had a regular customer for one pint of laudanum (D.D.A. regulations were not then in force). He was an old man of the Fens, and had ague. The money for the laudanum came by post one Sunday. It was a fair sum, and the wife was lucky.

The pharmacy was well-appointed, occupying a fine corner position, but was acquired by a multiple firm of drapers and the pharmacy closed. In December 1896, I passed the minor examination and in April 1897 the major, having attended the South London School of Pharmacy under that marvellous teacher Dr. Muter. In July 1897 I joined the pharmacy of Hooper & Co., Grosvenor Street, London, W.1, an exceptionally good West-end dispensing business. Each morning I had to make various fresh infusions, such as one quart inf. gent. co., one pint inf. aurant., quassia and calumba. The fresh lemon peel for inf. gent. co. was sometimes difficult to get. If not used in the day all the infusions were thrown away. Most of the tinctures were made on the spot. On one



occasion lin. bellad. was being prepared and the book-keeper in passing picked up a small piece of the root, and thinking it was liquorice, commenced to chew it. He soon realised his mistake.

There being three assistants, each week the times changed:—First week, duty Monday and Thursday till 11 p.m., and any calls on the night bell as well; Tuesday and Friday, off at 8 p.m.; Wednesday, 6 p.m.; Saturday, 5 p.m. Occasionally Sir Squire Bancroft, the actor, who lived in Berkeley Square, would give the man off at 5 p.m. on Saturday his card, saying the box office at His Majesty's would give him a good seat. I was lucky once, and getting off at 5 p.m. did indeed join the queue and get a good seat. Sunday duty was required every third Sunday, with no break, but dessert and a glass of sherry were sent down to the pharmacy. I was on duty one Christmas day and had to make 4 oz. of a lip salve for a titled lady to take with her to the South of France. It had a large proportion of balsam of Peru in it and several times, just at the critical moment, the bell rang, with the result that when I returned to it it had separated and I had to start all over again. One Sunday I answered the bell and found the late Sir Tatton Sykes, a very small man, at the door. After wishing me good morning he said it was warmer than he thought and took off a light overcoat. There were two others underneath. His valet collected it on Monday and probably another elsewhere. He was only on his way to the nearby Roman Catholic Church in Farm Street. The Duchess of Portland, one of the beauties of the Court, at one time inadvertently bruised her face against a bedside light. Result: a slight black eye. For that we prepared a suitable calamine lotion to paint it with and her maid performed such a good job with it that it was not noticed at the bazaar the Duchess opened that afternoon. In 1895 from Messrs. Hooper & Co. I went to take charge of Miller & Co.'s pharmacy on Mount Ephraim, Tunbridge Wells, owned by Mr. R. A. Robinson (afterwards Sir Richard Atkinson Robinson). Mr. Robinson was the first chemist and druggist to be president of the Pharmaceutical Society. At that time the Society was in bad odour with the Privy Council. Mr. Robinson found that Sir Almeric Fitzroy considered that the Council of the Pharmaceutical Society had failed to implement the rules suggested for the keeping and storage of poisons. Eventually the rules were adopted and enforced and better relationships resulted. Tunbridge Wells was in my time an ideal town in which to practise pharmacy. Only one firm of doctors did their own dispensing, they having a club practice. All the other doctors wrote prescriptions, and consequently dispensing was an active side in the pharmacies and sound of the night bell was much in evidence.

### "Harmless" Pills

Some of the Pharmacopoeial preparations were made at the pharmacy, but much of our supplies came from Mr. Robinson's pharmacy in Brompton Road. The prescriptions were not of the simple type, though I do remember one of an extremely simple nature:

R. *Micæ panis* gr. ii ft pil mitte LX.

This was for a patient who protested that pills were harmful to her. We referred the nurse to the doctor when she came to us with this story. The doctor told the nurse what the pills were, but the patient was not to know and was made to take them for a month. Then she was told.

In 1900 I joined Reynolds & Branson, Ltd., Leeds, and for thirty-eight years was in charge of their beautiful pharmacy in Commercial Street. It was then sold as a shoe shop. The front consisted of three Byzantine Gothic arches, the capitals of which were carved very realistically to represent plants from which drugs were derived. The interior was equally beautifully fitted in cream-coloured canary wood with ebonised pillars between each section of the wall fittings. Most of the Leeds physicians had their consulting rooms in Park Square, and in consequence

much of our work came from there, so we were in the front line of recent additions to modern treatment. Only extemporaneous dispensing was done at Commercial Street, all the galenicals coming from the company's laboratories at 13 Briggate. For twenty-five years I was allowed to conduct, in the firm's time, classes in *materia medica* and practical pharmacy for medical and dental students in the Leeds School of Medicine. During six years of that time I conducted for the Leeds School of Medicine and the Leeds City Council, jointly, a course of evening classes for pharmacy apprentices, designed to cover the requirements of the minor examination in three years' time. *Materia medica* and pharmacy classes were held in the Leeds School of Medicine by myself, chemistry under Mr. Parrish in the higher-grade school, and botany under Mr. Walker at the Leeds Technical School. In 1939 I retired to my home town from Reynolds & Branson, of Buckingham, taking with me the good wishes of the directors and staff, the Leeds Photographic Society, Naturalists' Club, and the Branch of the Pharmaceutical Society. In 1940, owing to the decease of David Low at Winslow I took control of that business and piloted it through the intricacies of flotation as a private limited liability company. When Dr. Leapingwell retired, the new young doctors who had bought the practice did not wish to do the National Health Service dispensing, so I had to undertake it and make the premises suitable by providing a new dispensary and a waiting room.

Now I am undertaking locum work in Somerset, Bucks, Beds, Northants, and Essex, and find it most interesting. I naturally compare dispensing under National Health Service with the time when a prescription was written for each individual and often presented some technical problem. Now, so often the National Formulary fits the case, and so much dispensing now consists of counting ready-made tablets. Naturally equipment varies from town to town. A recent post was in a pharmacy in an eighteenth century house at Witham in Essex. The retail side was beautifully equipped and furnished in a foreign wood—African walnut, I think. The benches in the dispensary department were of teak, and arranged so that two dispensers each had his own bench, with the sink a separate unit between them. All the most up-to-date equipment was provided, including a Manesty still, an autoclave, mechanical stirrers, a homogenizer and full equipment for filtration; finally there was a Therapeutic Substances Act licence room equipped for and used solely for this purpose.

## IN RE SMOG

*NO* doubt, to herald the arrival  
Of smog masks there'll be a revival  
By vandals of the Roman tongue,  
In coining Anglo-Latin mixtures  
Of words which will in time be fixtures  
And join "Eastonii" among  
Those words that strike with mortal blow  
The tortured shade of Cicero.  
"Maskum Smogitum Chirurgic"  
The "it-must-have-a-Latin-name" type  
Will use to indicate the frame type;  
For patients not quite so allergic  
The freak the classic ear will jar is  
Bound to be "Maska Vulgaris."  
Before these horrors come at random  
Let's have the thing in all its glory  
—"Ligamentum pro vapore  
Fumo polluto: applicandum  
Ori et naso, s.o.s."  
Agreed, it sounds a dreadful mess,  
But better that than stand invention,  
To make the ghost of Horace rave  
And Juvenal turn in his grave,  
—Of Smogma; noun; fem.; 1st declension.



# ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

## 21. INFECTIOUS DISEASES

AT this time of the year, the incidence of infectious diseases is at its highest. Though their treatment requires medical supervision, pharmacists are only too well aware of the numerous questions which the relatives of patients ask when visiting the local pharmacy. There is much misinformed public opinion on the subject, and it is therefore appropriate to provide some background information that will be of assistance to pharmacists.

Generally speaking, infectious diseases are caused by viruses and bacteria, though a few may be caused by other micro-organisms. As in all diseases, treatment is designed to combat the invading micro-organisms and to maintain the resistance of the patient. The relationship between patient and infective organism has often been likened to that of soil and seed. It is easy to understand that, with poor or disabled seed and unsuitable soil, growth of the seed is much retarded or actually inhibited. The natural reaction of living tissue is to combat any invading micro-organism and if the organism can be weakened and the tissues built up, the result will be defeat for the invader. In medical practice, that result is brought about in two ways: drug therapy and nursing. Though pharmacists might be expected to place undue emphasis on drug therapy and disregard nursing, they would be ill-advised to do so. Against some fevers there is no specific drug therapy, and the patient has to rely entirely on good nursing. In other cases the fever is so mild that nursing is of secondary importance to drug therapy. It is doubtful if any severe case could make an uneventful recovery if good nursing were entirely absent.

### *Specific Drug Therapy*

Damage to the patient may be caused by the bacteria or other micro-organisms themselves, or it may be the result of toxins which the invading organisms produce. In either event it is advisable to combat the micro-organism itself if possible because, even if the toxins produced are harmful, their concentration is reduced if the number of micro-organisms is diminished. In some circumstances it is necessary to neutralise the toxins as well, and it is true to say that to use antitoxin therapy has only the disadvantage of an allergic reaction from the patient. With some sera the risk is greater than with others, and in some infectious diseases the antibiotics and chemotherapeutic agents available are sufficiently rapid and effective in their action to make it unjustifiable to subject the patient to the risk of serum shock. On the whole, the necessity for antitoxins has diminished since the introduction of chemotherapy and antibiotics. There are several examples, however, of diseases in which their use is amply justified, and there is only need to mention tetanus and diphtheria to prove the point.

Serum therapy is designed largely against the toxins produced by the invading organisms and is provided by the various antitoxin preparations available. Antibacterial sera have been prepared that attack bacteria themselves, but sera of that kind have never been really successful and have no place in the treatment of human diseases. It must be remembered also that antitoxins can only be effective against free toxins circulating in the body tissues. They are of no

use against toxins that have become fixed in the body cells. If their use is justified, therefore, it is essential that administration should be made early, and in doses large enough to neutralise the circulating toxins. It must also be realised that time is still an important factor after administration of the serum, since it can often be a matter of several hours before serum injected intramuscularly or subcutaneously appears in the blood stream. In toxic patients, therefore, there is a strong case for intravenous injection.

Much has been written concerning the drugs used in chemotherapy and about the antibiotics, so that it is not necessary to explain each one individually. Generally speaking the action of those drugs is to interfere with the metabolism of the organisms at some vital phase in their life, usually at the time of fission, when they reproduce. If the reproduction of bacteria is inhibited or retarded, they become weakened and die. While the inhibition is progressing the polymorpho-nuclear leucocytes (i.e., the white blood cells) have increased in number, and their concentration at the site of infection has also increased. The body tissues have therefore increased their number of phagocytes to remove the invading organisms and the patient has developed his own antibodies. Other drugs are used in the treatment of the various infectious diseases, but their use is designed to provide symptomatic relief, and will be discussed under the heading of general measures.

### *General Measures*

One of the outstanding features of an infectious disease is the presence of fever, or pyrexia as it is called. Pyrexia is the natural reaction of the body to the invading organisms and their toxins. In itself, it is not necessarily of importance to the future progress or prognosis of the patient, and there is no justification for the popularly held belief that it is essential to reduce the temperature, and that the patient will then be better automatically. One can be in a very toxic state and have no temperature rise at all. It would be silly to say that pyrexia is of no importance, but it would be equally stupid to magnify its effects, particularly in children. It would be wrong to assess the progress of a patient entirely upon the information provided by a clinical thermometer. It must be emphasised that a knowledge of the temperature of the patient is only of value when considered in relation to the rate of the respirations and the pulse. Unfortunately those two factors can be assessed with one's eyes and a finger and do not require the services of some scientific instrument such as a clinical thermometer. A clinical thermometer is normally the sole scientific possession of a layman for the diagnosis of disease. Its findings are treated with respect, often too much respect. If the temperature is determined by means of an instrument, it is equally important in the eyes of some to reduce it by suitable scientific means, such as antipyretic drugs. That process is wrong and when practised by laymen cannot be too strongly condemned; it is merely determining the condition of the patient by means of drugs, often given in toxic doses. It is far easier to reduce the temperature, where necessary, by tepid sponging of the patient. That not only reduces the temperature and thereby increases the



comfort of the patient, but also removes the waste products of excessive secretion of the sweat glands and stimulates the peripheral circulation of the patient, thereby in turn encouraging the excretion of toxic products. Administration of antipyretics produces a drowsy and still toxic patient, whereas tepid sponging in no way dulls the mental faculties of the patient. In fact, it stimulates them and increases the general well-being of the patient.

The treatment of pyrexia has been stressed because one does not have to be engaged in medical practice for long to realise that the fear of pyrexia in lay attendants of patients prompts many undesirable practices. They receive, too, the support of the patient, since it is only by accident that he is the patient and not the attendant, and thus he shares the same fears. General nursing treatment must be designed to provide rest, an adequate diet, and symptomatic relief for the patient, at the same time including measures designed to prevent the spread of infection.

### Preventing the Spread of Infection

For reasons of space, this article concludes with a few remarks on preventing the spread of infection, leaving the other matters to be discussed in the next article. Recent years have seen a great increase in knowledge of the viability and methods of infection. As a result, it is not now necessary to pay such meticulous attention to some factors as was formerly considered necessary. It is generally agreed that most of the common viruses cannot live long on dry material away from a living host. Except in small-pox, it is not now the practice to fumigate the room and sterilise the bedclothes by dry heat after their use in a case of infection.

Simple rules apply to the nursing of infectious cases. The room should be well ventilated and not over-heated in order that the normal heat regulation processes of the body can proceed. The furnishings of the room should be simple and should merely provide the bare necessities consistent with the aesthetic standards required to maintain the patient's morale. Surfaces should be smooth and the possibilities of dust settling should be reduced to a minimum. When the room is dusted it is frequently advisable to sprinkle water around to prevent particles of dust blowing about. It must not be forgotten that dust is a good means of transmitting bacteria. Crockery and cutlery used by the patient should be kept separately and washed in hot water containing suitable detergents (in certain cases disinfectants). In most cases, however, plenty of hot water and a suitable detergent are all that is necessary. Personal clothing of the patient should be treated separately in the same way as crockery, and particular care should be taken regarding handkerchiefs. It is preferable to use paper ones, which can be destroyed immediately after use. Vomitus and faeces should be removed immediately and the vessels used for their collection disinfected. A limit should be placed on the number of books and toys allowed in the room and old ones should be chosen so that they can be destroyed if necessary.

The number of visitors should be reduced to the minimum, and it is advisable to place a gown inside the room, which the attendant can wear on entering and while dealing with the needs of the patient.

## BRITISH FINE CHEMICALS AND THEIR USES

### 1. RESORCINOL

AS a result mainly of modern industrial developments, resorcinol has recently enjoyed increased demands, which show every sign of further expansion. It has wide applications in pharmaceuticals, the production of dyes, printing pastes, cosmetics, moulding compositions, and in analytical investigations. Its largest demand is probably in the preparation of "unbreakable" gramophone records, but there are more than a dozen different medicinal compositions which have resorcinol as the principal constituent.

Resorcinol is also the basis of numerous dyes, being readily transformed into azo-dye by nitrous acid, and into fluorescein by the action of phthalic anhydride. In analytical investigations, resorcinol is used for evaluating hydrochloric acid in gastric juice, the detection of chloral and chloroform, the recognition of certain ethereal essential oils, the detection of sugar beet and other carbohydrates and lignified tissues, in the colour reactions of some phenols, and as a test for nitrates and nitrites.

In pre-war years, resorcinol was almost exclusively produced in the United States and on the Continent. Even then there was recognition that, if it fell in price, it could be used for the economical preparation of resins that would enjoy great popularity for the production of quick moulding powders. Formerly, resorcinol had its main demand in the manufacture of tar colours, particularly in the production of fluorescein by heating it with phthalic anhydride to 200° C. and dissolving the fused mass in weak alkaline solutions or in ammonia.

Resorcinol is prepared from various resins, such as galbanum and asafoetida, by fusion with sodium hydroxide, but it is also obtained from benzene disulphonic acid by fusion with caustic potash. By heating a mixture of five parts of sulphuric acid (159° Twaddell) with one part of benzene to a moderate temperature, with continuous stirring, a pure benzene free from toluene is obtained. The product, benzene monosulphonic acid, is readily converted into benzene disulphonic acid, from which, after conversion into sodium disulphonate, resorcinol is obtained by treatment with hydrochloric acid. It is shaken with fusel oil and the amyl acetate solution drawn off, the residue being resorcinol, which is dried and distilled *in vacuo* to yield the pure product.

Though comparatively pure, the white crystalline mass is often slightly coloured. Pure resorcinol should not reveal any odour of phenol on heating, and should completely volatilise, leaving no residue. The addition of ferric chloride should produce a deep violet colour. Depending on the raw material used for preparing the commercial salt, resorcinol may contain resinous matter and phenol, besides isomers and homologues such as pyrocatechin and phloroglucin. As a rough test of its purity, use is made of the fact that the pure mass melts at 110° C., the impure mass at less. For an exacting test for the presence of phenol, the ethereal solution of resorcinol is shaken with a little sodium hydroxide solution and then acidified, when the distinctive odour is detected if minute amounts are present. Pyrocatechin is precipitated by lead acetate solution, and a staining method is used for detecting phloroglucin. Those elaborate tests are usually only necessary where ointments and solutions for pharmaceutical uses are in question.

## RECENT RESEARCH

### THIMBLE-SHAPED PESSARIES

THE design has been registered in France of a small "ovule" or pessary for insertion in the upper vagina. Its feature is that it is shaped to fit the finger-tip. Presented in a series in a glass tube, the products may be withdrawn one by one by inserting the finger into the product and at once transferring it to the vagina.

### RAPID ESTIMATION OF BLOOD OXYGEN

A RAPID method of estimating the percentage oxygen saturation of blood and blood oxygen content, using a spectrophotometer, is described by Waide and others (*British Medical Journal*, 1953, 2, 902). The method is based on measurement of the optical density of hemoglobin solutions. Two observers using the method made duplicate estimations of the percentage oxygen saturation on fifteen specimens of blood in one hour.

## INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

- BAILLEY No. 2 breast reliever
- WELLCRAFT brand hosiery
- Gluten-free bread
- PARSIDOL tablets
- MOVIDYN disinfectant (possibly American)
- D.D. (for eel-worm in ground)
- DUKE brand Alpine herb tea (possibly originating in Liverpool)



## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 20: CRUDE DRUGS have been in steady demand during the week, though orders placed have been generally for small lots. Prices have been usually maintained, such changes as did occur being mostly upward.

There were no shipment offers of Cape ALOES for either prime or f.a.q.; Curaçao reacted with firmer prices for shipment. The rates for both African and Jamaican GINGER were advanced by 2s. 6d. per cwt. on the week; so also was Madras TURMERIC for March-April shipment. In AROMATIC SEEDS, spot offers of Dutch CARAWAY were up by about 2s. 6d. per cwt. whilst ANISE, CORIANDER and DILL maintained their previous levels. HONEY is firm on the spot because of a continued shortage, but the high prices now asked for immediate delivery are expected to ease within the next month as fresh supplies are received. SHELLAC was a dull market and most grades were down by 5s. per cwt. Of the total shipments of shellac from India during December 1953 (18,033 packages) the United Kingdom received 10,678 and the United States, 1,625. More activity occurred in PEPPER. Chinese MENTHOL was dearer for shipment, but spot supplies were unchanged. BEESWAX from all sources advanced in price but CARNAUBA quotations were shaded.

The most interesting development in PHARMACEUTICAL CHEMICALS was the removal, from January 18 (see p. 75), of SODIUM AMINOSALICYLATE (PAS) from the list of chemicals chargeable with Key Industry Duty. It is expected that the price will fall by an amount corresponding to that duty. ACETIC ANHYDRIDE was reduced by £8 per ton on January 18. CALAMINE is slightly lower in price. CAFFEINE and THEOBROMINE ALKALOIDS were advanced by 1s. and their SALTS by sixpence per lb. on January 20, owing to higher raw material costs. There is also a firmer tendency in EPHEDRINE, since imported material is believed to have been sold for several weeks ahead.

In ESSENTIAL OILS, the value of

ANISE at origin advanced sharply by 1s. per lb. to 9s. (c.i.f.), the same price is now being quoted for spot. Also dearer for shipment were CASSIA and Ceylon CITRONELLA by twopence and threepence per lb. respectively; Chinese PEPPERMINT by sixpence and Brazilian by 1s. LEMONGRASS also continued firm. Lower were Bourbon VETIVERT and GERANIUM and EUCALYPTUS.

### UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, JANUARY 19: Dwindling offerings and better demand strengthened Japanese MENTHOL, bringing it to \$8.50 per lb. (up 50 cents), and Brazilian menthol, which was quoted at \$5.00 (10 cents). Higher per lb. among CRUDE DRUGS were powdered ELM BARK at 65 cents (up 5 cents) and white PINE BARK at 2 cents (2 cents). Higher per lb. among ESSENTIAL OILS were SPEARMINT at \$5.65 (up 10 cents); CEDARLEAF at \$2.15 (15 cents); and CEDARWOOD, 55 cents (3 cents). CHENOPodium at \$4.40 was down by 20 cents.

### Pharmaceutical Chemicals

ACETIC ANHYDRIDE.—Lower from January 18. New rates (per ton) include: 1-ton (spot or contract over a calendar year) in 90-gall. drums, £130; single carboy, £162; single demijohn, £166.

AMIDOL.—In 14-lb. lots the price is 19s. per lb.; 7-lb., 19s. 6d.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 61s. 6d.

BENZAMINE.—LACTATE is 53s. per 100 gm. and 247s. per 500 gm. HYDROCHLORIDE is 56s. 6d. for 100 gm. and 264s. 6d. for 500 gm.

BORIC ACID.—Prices for B.P. grade in quantities of 1-ton and upwards are as follows:—Granular, £80; crystal, £87; powder £84 10s.; extra-fine powder £86 10s. per ton, in 1-cwt. bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5-cwt., 1s. per cwt.; 3-cwt., 2s.; 1-cwt., 3s.

CAFFEINE — Alkaloid, B.P. is about 18s. 6d. per lb. for 1-cwt. lots and CITRATE, 12s.

CALAMINE.—Lower. 1-cwt. lots are now 1s. 7d. per lb.; 10-cwt., 1s. 5½d.

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots, 3s. 1d. per lb.; 1-ton, 2s. 10d. Discount for larger quantities.

DIPHENAN.—Prices range from 58s. to 67s. per lb., according to quantity.

EMETINE.—Prices for 32-oz. or 1-kilo lots are as follows: HYDROCHLORIDE, 230s. per oz. or 8,113s. per kilo. The BISMUTH IODIDE is 115s. per oz. or 4,056s. 6d. per kilo.

EPHEDRINE. — In 100-oz. lots ALKALOID is about 8s. per oz. (262s. per kilo) is about 8s. per oz. (262s. per kilo); HYDROCHLORIDE, 4s. 7d. (161s. 8d. per kilo); SULPHATE, 5s. 6d. (194s. per kilo).

ETHER.—Prices (per lb.) in Winchester are now as follows:—TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 3d.; 10-cwt.,

2s. 2d. ANÆSTHETIC, B.P., 5-cwt., 3s. 8d.; 10-cwt., 3s. 7d. In drums prices are 2d. per lb. less than above.

GLYCERIN. — Rates for pharmaceutically pure are as follows:—

	Under 1-cwt.	1-cwt. and under 5-cwt.	5-cwt. and under 1 ton	1 ton and under 5 ton	5 tons and under 25 tons
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	5-cwt.	10 cwt.
Per cwt.	s. d.	s. d.	s. d.	s. d.	s. d.
TINS					
14-lb.	325 0	320 6	316 6	312 0	310 6
28-lb.	323 0	318 6	314 6	310 0	308 6
56-lb.	319 0	314 6	310 6	306 0	304 6
DRUMS					
1-cwt.	—	299 0	295 0	290 6	289 0
2½-cwt.	—	296 6	293 0	288 6	287 0
5-cwt.	—	—	292 6	288 0	286 6
10-cwt.	—	—	291 6	287 6	286 0

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID B.P.C., 20 per cent., 5s. 9d.; CALCIUM, soluble, B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble B.P.C., 14s. 3d., and insoluble 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d.

HYPOPHOSPHITES. — Prices per lb. are unchanged as follows:—

SALT	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
AMMONIUM ..	12 10	12 5	12 0
BARIUM ..	7 10	7 5	7 0
CALCIUM ..	5 11	5 6	5 1
IRON ..	12 1	11 8	11 3
MAGNESIUM ..	9 4	8 11	8 6
MANGANESE ..	12 4	11 11	11 6
POTASSIUM ..	7 11	7 6	7 1
SODIUM ..	6 7	6 2	5 9

LACTATES. — CALCIUM, B.P., is 2s. 7d. per lb. in 5-cwt. lots, and 2s. 8d. per lb. for 1-cwt. CALCIUM SODIUM, B.P.C., for the same quantities is 4s. 4d. and 4s. 5d. per lb. LACTIC ACID, B.P., in 12 Winchester lots is 4s., and 3 Winchester, 4s. 4d. per lb. Carboys are 3s. 9d. per lb.

MAGNESIUM SULPHATE.—Quotations for B.P. in minimum 1-ton lots vary between £17 10s. and £20 per ton, according to size of crystal and manufacturer. Exsiccated is £34 per ton.

PARAFFINS. — Prices to wholesaler distributors are as follows:—Liquid: HEAVY, B.P., £98 17s. 6d. per ton; LIGHT, B.P., £81; light TECHNICAL WHITE, £68 10s., all in 40-45 gall. returnable loaned drums, delivered U.K. Soft: WHITE, medium consistency, £92 15s. per ton; WHITE, soft consistency, £90 10s., and YELLOW, £70 10s., all B.P., in non-returnable drums, delivered. Hard: Melting point 135/140° F. is £86 17s. 6d. and 145/150° F., £93 5s. per ton, in minimum 1-ton lots, ex works.

PAS.—The SODIUM salt is from 30s. to 35s. per kilo as to quantity.

SODIUM PERCARBONATE.—1-cwt. kegs are about 163s. (bags 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

STILBOESTROL. — Quotations are from 1s. 2d. to 1s. 7d. per gm. as to quantity. 1-kilo lots of B.P. are quoted at 10½d. per gm. The DIPROPIONATE is about 1s.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In Winchester, prices are from 4s. 3¼d. to 5s. 2d. per lb.

ZINC OXIDE.—Rates (per ton) for B.P. quality are: 2-ton lots, £114; 1-ton, £115; 5-cwt., £117; under 5-cwt., £124.

### EXCHANGE RATES ON LONDON

At the opening on Wednesday

*Alexandria .	Piastres to £	97½-97½
Amsterdam .	Florins to £	10.56-10.72
*Bombay ...	Shillings to rupee	1/5½-1/6½
Brussels ...	Francs to £	138.95-141.05
Copenhagen	Kronor to £	19.19½-19.48½
Dutch West		
Indies ...	Florins to £	5.24-5.32
*Hong Kong	Shillings to \$	1/2½-1/3
*Karachi ...	Shillings to rupee	2/1½-2/1½
Lisbon .....	Escudos to £	79.90-81.10
*Montreal		
T.T. ....	Dollars to £	2.73½-2.73½
New York		
T.T. ....	Dollars to £	2.78-2.82
Oslo .....	Kronor to £	19.85-20.15
Paris .....	Francs to £	972.6-987.3
Stockholm .	Kronor to £	14.37½-14.59½
*Singapore ...	Shillings to £	2/3½-2/4½
Zurich .....	Francs to £	12.15½-12.33½

\*Free market rates; remainder Bank of England.



## Crude Drugs

**ACONITE.**—Spanish napellus is 3s. 2d. per lb., duty paid, ex wharf.

**AGAR.**—Kobé No. 1 on the spot is from 15s. 3d. to 15s. 6d. per lb. as to quality, Korean, 14s. 3d. Forward, 12s. 9d., c.i.f., quoted for shipment of new crop Kobé.

**ALOE.**—Prime Cape is 165s. per cwt. on the spot. Shipment, no offers from origin. Curaçao is 330s. on the spot and 305s., c.i.f., for shipment.

**ANISEED.**—Chinese star is offered for shipment at 200s. per cwt., c.i.f.

**ANTIMONY.**—English, 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

**ARECA NUTS.**—Quotations are firm at 50s. per cwt. for Ceylon material on the spot.

**ASAFOETIDA.**—Persian block is £14 per cwt., duty paid.

**BALSAMS.**—Quotations (per lb.) are:—*Canada:* According to holder from 21s. to 22s. 6d., spot, *Copaiba Soluble* Par, spot, 12s. 6d. *Peru*, 8s. 9d. in bond. *Tolu* (genuine as imported), now 22s. 6d., spot, and 20s. 6d., c.i.f.

**BISMUTH METAL.**—Minimum rate is 16s. per lb.

**CAMPHOR.**—Chinese (B.P.) powder remains scarce on the spot. Prices of ½-oz. tablets are 5s. 3d. per lb.; 2½-lb. slabs 4s. 9d. per lb., duty paid. Synthetic powder is firm at 3s. 7d. per lb. for 100-lb. lots.

**CAPSICUMS.**—East African on stalk are 160s. per cwt., spot, and 135s., c.i.f., off stalk, 205s. and 170s., c.i.f.

**CARDAMOMS.**—Firm. Aleppy greens, 15s., spot; shipment offers are 14s. 6d., per lb. c.i.f.

**CASCARA SAGRADA.**—Offers for shipment are 265s. per cwt., c.i.f. Spot supplies are 285s., duty paid.

**CINCHONA.**—Parcels of British East African chips and broken quills are offered from 1s. 9d. and 1s. 11d. per lb., respectively, as to test.

**CINNAMON.**—Ceylon for shipment 0000, 3s. 5d. per lb., c.i.f.

**CASSIA BARK.**—Whole on the spot is about 92s. 6d. per cwt., in bond, and for forward delivery, 82s. 6d., c.i.f. Broken, 67s. 6d. in bond, and 62s. 6d., c.i.f.

**CHERRY BARK.**—Scarce. Thin natural is from 1s. 10d. per lb., duty paid, and rosed, 2s. 3d., on the spot.

**CLOVES.**—Unchanged. Zanzibar on the spot are 5s. per lb.; prompt shipment, 4s. 3d., c.i.f.

**COCHINEAL.**—Black brilliant is 9s. 9d. per lb.; and silver-grey, 8s. 3d.

**COLCHICUM.**—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

**COLOCYNTH.**—Good quality pulp on the spot has been cleared. Offers scarce at origin.

**GALANGAL.**—Spot material is about 90s. per cwt., with forward offers of 80s., c.i.f.

**GENTIAN.**—French natural on spot is 100s. per cwt., and from 92s. 6d. to 95s., c.i.f.; sliced, 115s. spot.

**GINGER.**—Firm. African f.a.q. on the spot, from 95s. to 100s. per cwt. and for shipment, 95s., c.i.f., quoted. Jamaican No. 3 is also firmer at 120s. on the spot.

**GUM ACACIA.**—Kordofan cleaned sorts on the spot are quoted at 110s. per cwt. February-March shipment is 99s., c.i.f.

**HONEY.**—Firm. Australian light-amber is firm on the spot at 110s. to 115s. per cwt.; medium-amber 95s. to 100s. Argentine is from 115s. to 120s. and Jamaican, 120s. to 130s.

**IPECACUANHA.**—Nicaraguan for shipment is about 47s. 6d. per lb., c.i.f.; Colombian, 46s., c.i.f. Spot: Matto Grosso, 46s.;

Colombian, 50s.; Nicaraguan, 54s.

**MENTHOL.**—Spot. Chinese is about 31s. per lb., duty paid, and for shipment, 28s. 3d., c.i.f.

**MERCURY.**—Nominal spot value is £61 15s. per flask (76 lb.), ex warehouse.

**NUTMEGS.**—West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. 5½d., c.i.f., for shipment.

**PAPAIN.**—Easier. Spot values for East African grade one are now 24s. per lb., and grade two, 21s. Ceylon white for shipment is about 24s., c.i.f.

**PEPPER.**—Dearer. White Sarawak, 6s. 7½d. per lb. paid and sellers now asking 6s. 9d.; from 6s. 5d. to 6s. 6d., c.i.f., quoted for afloat parcels. Black Sarawak, is 6s. 1½d. per lb., spot and 5s. 11d., c.i.f. afloat. Black Malabar is 810s. per cwt. spot and 750s., c.i.f. for afloat.

**QUILLIAIA.**—Supplies of whole bark are cleared on the spot. Cut has advanced to 175s. per cwt. on the spot and 165s. c.i.f., asked at origin.

**RHUBARB.**—Chinese. Rough round, high dried (A) has been offered about 8s. 9d. per lb. Smaller sizes of same quality not available.

**SARSAPARILLA.**—Jamaican native red is 2s. 9d. per lb. on the spot. Forward offers are 2s. 6d., c.i.f.

**SEEDS.**—Rates per cwt. are: ANISE.—Cyprian, 170s., spot London. CARAWAY.—Dutch are a little dearer on spot with sellers now quoting 98s. 6d., duty paid.

**CELERY.**—Indian is quiet with sellers asking 210s., spot London. CORIANDER.—Market firm. Spot, Moroccan, 57s. 6d., duty paid (55s., in bond); English, 75s. Shipment, Moroccan are quoted from 47s. to 48s. 6d., c.i.f., London. CUMIN.—Spot: Cyprian 130s.; Moroccan, 127s. 6d.; Shipment: Moroccan is 102s. 6d. and Cyprian, 111s., c.i.f. DILL.—Indian, 90s., spot. FENNEL.—Indian, 127s. 6d., spot. FENUGREEK.—Moroccan, 49s., duty paid. MUSTARD.—English, 67s. 6d. to 85s. according to quality.

**SENEGA.**—Quiet. Shipment quotations are 16s. per lb., c.i.f. Spot material is offered at about 15s.

**SERPENTARIA.**—Root is offered at 40s. per lb. on the spot.

**SHELLAC.**—Spot quotations are:—F.O.T.N. pure 265s. nominal; F.O. standard No. 1, 275s.; fine orange 285s. to 330s. per cwt., ex-London warehouse.

**STRAMONIUM.**—Indian LEAVES are 5½d. per lb., spot and European, 97s. 6d. per cwt.

**STROPHANTHUS.**—*Kombé*, 100 per cent. is about 11s. per lb., on the spot, and *Gratus*, 17s. 6d.

**STYRAX.**—Spot is 5s. 9d. per lb., duty paid.

**TAMARINDS.**—Quiet. Madras for shipment (1 per cent. stones), 67s. 6d., c.i.f.; (5 per cent.), 65s., c.i.f.

**TRAGACANTH.**—No. 1 ribbon on the spot is £105 per cwt.; No. 2, £85; No. 3, £65.

**TURMERIC.**—Firm. Rajapore is 125s. per cwt., paid for spot; Madras finger, 130s. New crop for March-April shipment is firmer at 95s., c.i.f.

**VANILLIN.**—Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

**WAXES.**—BEES.—Dar-es-Salaam. Spot, 445s. per cwt., nominal; February-March shipment, 442s. 6d.; Sudanese, 430s., duty paid and 385s., c.i.f.; Benguella, no spot, shipment 390s., c.i.f.; Abyssinian, 435s., duty paid and 385s., c.i.f. CANDELILLA.—Spot is unchanged at 635s. per cwt. CARNAUBA.—Prime yellow on the spot is 1050s. per cwt.; shipment 995s., c.i.f.; fatty grey is 730s. on the spot; shipment, 700s., c.i.f.

## Essential and Expressed Oils

**ALMOND.**—B.P. is from 6s. to 7s. 6d. per lb., as to quantity.

**AMBER.**—Rectified on the spot is quoted at from 1s. 6d. per lb.

**ANISE.**—Firm. Spot supplies are now 9s. per lb., with shipment prices at the same level (c.i.f.).

**BAY.**—W. Indian is 8s. 6d. to 9s. per lb. on the spot.

**BERGAMOT.**—Spot value is about 82s. 6d. per lb.

**BIRCH TAR.**—Rectified is about 14s. per lb. in 1-cwt. lots.

**BOIS DE ROSE.**—Brazilian on the spot is 32s. 6d. and 30s. 6d., c.i.f.

**CANANGA.**—Supplies to come forward are quoted at from 60s. per lb., c.i.f. Spot is from 62s. 6d. per lb.

**CASSIA.**—Original drums are about 10s. 6d. per lb. for spot and 8s. 3d., c.i.f.

**CASTOR.**—In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £141 per ton, naked, ex mill in non-returnable drums. For April-May delivery the price is £133.

**CITRONELLA.**—Quiet. Prices (per lb.) are:—Ceylon, spot, 3s. 9d. per lb.; shipment, 3s. 10d. c.i.f.; Java, 6s. 3d., duty paid; shipment, 5s. 9d., c.i.f.; Formosa, 6s., duty paid and 5s. 4½d., c.i.f.

**CUMIN.**—Quotations for English-distilled oil are about 75s. per lb. and imported, 60s.

**EUCALYPTUS.**—Drum lots of 70 to 75 per cent, eucalyptol on the spot are 4s. 9d. per lb., and 80 to 85 per cent., 5s. 3d.

**GERANIUM.**—Bourbon is 80s. per lb. on the spot. Shipment, 79s., c.i.f.

**LAVENDER.**—French, 40-42 per cent. linalol on the spot is from 33s. per lb.

**LAVENDER SPIKE.**—Spanish is about 11s. 6d. per lb.

**LEMON.**—B.P. (4 per cent. citral) on the spot is about 44s. per lb.

**LEMONGRASS.**—Firm. East Indian is now 8s. 9d. per lb. on the spot and 8s. 8d., c.i.f., for shipment.

**LIME.**—Supplies of West Indian distilled are offered from 45s. to 50s. per lb. on the spot.

**NUTMEG.**—English-distilled oil is from 42s. 6d. to 44s. per lb. Imported oil is offered at 24s. per lb., duty paid for drum lots.

**PATCHOULI.**—Penang for shipment is 49s. 6d. per lb., c.i.f., with spot offers at 57s. 6d., duty paid.

**PEPPERMINT.**—*Arvensis*: Chinese is about 19s. 6d. per lb., spot and 18s. 6d., c.i.f., January-February shipment: Brazilian (45 per cent.), 15s. spot; forward, 14s. 6d., c.i.f. Italian "Mitcham" type oil is 52s. 6d. per lb., for best quality on the spot.

**PETITGRAIN.**—Paraguay on the spot is 18s. per lb., and for January shipment is 16s. 10½d., c.i.f.

**PINE.**—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 9s. 6d.

**ROSEMARY.**—Spanish oil on the spot is about 5s. 9d. per lb., duty paid, for B.P. quality.

**RUE.**—Spot offers are from 12s. 6d. per lb.

**SAGE.**—Spanish is offered at from 9s. 6d. per lb. spot.

**SANDALWOOD.**—Mysore is 70s. per lb. for 7 x 25-lb. tins.

**SPEARMINT.**—Offers of B.P.C. quality are from 57s. 6d. per lb.

**THYME.**—B.P.C. is about 9s. 6d. per lb.

**VETIVER.**—Bourbon in original drums on the spot is 92s. 6d. per lb.



## WORLD TRADE

**East African Papain Industry.**—Papain growers in the Northern Province and in Central Tanganyika are to urge the Government to set up a board of control for the marketing of papain, to avoid the wide fluctuations in price that have occurred during the past two years.

**Token Imports from North America.**—The token import scheme continues in 1954 for imports of goods from Canada and the United States, with quotas at the same level as for 1953 (30 per cent. by value of each North American manufacturer's average U.K. trade in the commodity in question in 1936-38).

**U.S. Exports to Hong Kong.**—The United States Commerce Department has relaxed its control on the export of non-strategic goods to Hong Kong by adding a large number of items to the list of goods which may be exported without prior licensing from January 14. Included are certain household and industrial insecticides and photographic and optical goods.

**Tinnevelly Senna Shipments.**—Shipments of senna from Tuticorin during December 1953 included the following:

	United Kingdom	United States	Europe
	Bales	Bales	Bales
LEAVES	20	120	426
PODS	46	—	309

**Indian Import Policy.**—The Indian Government has announced its import policy for the first half of 1954; it is in the main a renewal of the licensing policy of the second half of 1953. Quotas have been increased for twenty-two items, including drugs and medicines and essential oils. Additional licences are to be granted to established importers for increased imports of certain scientific and optical instruments. The face value limits have been raised for perfumery.

**Argentina to Import More Goods.**—In order to complete Argentina's import programme for 1953, the Central Bank is to grant further import licences to a total value of 850 million pesos. Requests from importers under the latest concession should have been presented by January 1. A long list of goods to be allowed entry from numerous countries, at official and free exchange rates, includes surgical instruments and a number of industrial chemicals.

**Trading Figures of a German Company.**—The Farbenfabriken Bayer A.G., Leverkusen, the largest successor company of the former I.G. Farben combine, has announced that its total turnover in 1953 was about D.M. 1,025 millions, about 18 per cent. more than in 1952. Home sales during 1953 rose by 12 per cent., export sales by 32 per cent. The export rate was 34 per cent. against 31 per cent. in 1952. The company states that all sections of the enterprise contributed to the increase. Bayer A.G. and its subsidiaries employed 36,766 people at the end of 1953. Investments amounted to about D.M. 90 millions compared with D.M. 107 millions in 1952.

## GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

### PRIMOLAX

MANUFACTURER: H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2.

DESCRIPTION AND FORMULA: Tablets, each containing: Methyl cellulose, 0.5 gm., aneurine hydrochloride, 0.5 mgm.

INDICATIONS: Intestinal stasis.

DOSAGE: Adults: Two to three tablets three times daily after meals to be taken with a copious draught of water or other fluid. Children: Proportionately (according to age).

HOW SUPPLIED: In bottles of fifty and 200 tablets.

FIRST ISSUED: November 1953.

### ARTHRIPAX CREAM

MANUFACTURER: Clinical Products, Ltd., 2 The Green, Richmond, Surrey.

DESCRIPTION AND FORMULA: A cream containing in a non-greasy base the following medicaments in the percentages indicated: Benzyl salicylate, 7.5; menthol, 1.0; ephedrine hydrochloride, 0.5; glycol salicylate, 7.5; terebene, 7.5; capsaicin, 0.08.

INDICATIONS: Rheumatic and allied disorders.

USE: Applied locally with massage.

HOW SUPPLIED: In 1-oz. tube and in 4-oz. and 8-oz. pots for dispensing.

FIRST ISSUED: November 1953.

REFERENCES: Howell, *Lancet*, 1950, **II**, 395. Moss, *Med. Pr.*, 1950, **224**, 515.

### OCUSOL EYE DROPS

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION AND FORMULA: Eye drops containing in a viscous isotonic medium sulphacetamide sodium, 5 per cent.; zinc sulphate, 0.1 per cent.

INDICATIONS: Acute contagious conjunctivitis, angular conjunctivitis, trachoma, blepharitis, ophthalmia neonatorum, and for routine prophylaxis after treatment of eye injuries.

USE: Two or three drops in the affected eye three or four times daily.

HOW SUPPLIED: In dropper bottle containing  $\frac{1}{2}$  fl. oz.

FIRST ISSUED: November 1953.

### PLEXONAL

MANUFACTURER: Sandoz Products, Ltd., 134 Wigmore Street, London, W.1.

DESCRIPTION AND FORMULA: Tablets, each of which contains: Barbitone sodium, 45 mgm.; phenobarbitone sodium, 15 mgm.; sodium isobutylallylbarbiturate, 25 mgm.; hyoscine hydrochloride, 0.08 mgm.; dihydroergotamine methanesulphonate, 0.16 mgm.

INDICATIONS: Insomnia and anxiety neuroses.

DOSAGE: One to three tablets to be taken half an hour before retiring.

HOW SUPPLIED: In tubes of twenty and 200 tablets.

FIRST ISSUED: October 1953.

### DIPHTHERIA-TETANUS-PERTUSSIS PROPHYLACTIC Glaxo

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1.

DESCRIPTION: Prophylactic for simultaneous immunisation each c.c. of which contains: Lf. 25 diphtheria toxoid; 20,000 million *Haemophilus pertussis*; 0.3 c.c. tetanus toxoid.

INDICATIONS: Prophylaxis against diphtheria, tetanus and whooping cough.

DOSAGE: Course of three 1-c.c. doses at intervals of at least one month, preferably starting at age five to six months. Reinforcing doses of 1 c.c. at two and five years. Can be given by subcutaneous or intramuscular injection.

HOW SUPPLIED: Box of three 1-c.c. ampoules; 10 c.c. vial.

FIRST ISSUED: November 1953.



**SUTHEEN "P"**

MANUFACTURER: Bengue & Co., Ltd., Mount Pleasant, Alperton, Wembley, Middlesex.

DESCRIPTION: Liquid containing in 100 mls 6-7-dihydroxycoumarin glucoside, 0.10 gm.; sodium methyl-4-esculetol-mono-ethanoate, 1.00 gm.; ext. aescul. hippocastan., 5.00 gm.

INDICATIONS: Hæmorrhoids and acute hæmorrhoidal attacks, varices and disorders of venous circulation, capillary fragility.

DOSAGE: Average, 10—20 drops three times a day. Strong, 1—2 teaspoonfuls 2—4 times a day according to the instructions of the physician. To be taken with a little sweetened water, with meals.

HOW SUPPLIED: In bottle of 25 mls approximately.

FIRST ISSUED: November 1953.

**DUACTIN**

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2.

DESCRIPTION: Sugar-coated tablets containing pyridoxine hydrochloride (Vitamin B<sub>6</sub>), 20 mgm.; phenobarbitone, 16 mgm.

INDICATIONS: Nausea and vomiting of pregnancy, radiation sickness.

DOSAGE: Two tablets three times on the first day followed by three to four tablets daily on the next four or five days.

HOW SUPPLIED: In bottles of twenty, 100 and 250.

FIRST ISSUED: April 24, 1953.

NOTE: Schedule 4 poison.

REFERENCES: *J. Amer. Med. Ass.*, 1951, 147, 322. Weinstein and Wahl, *Amer. J. Obst. & Gynec.*, 1949, 47, 389. Silbermager and Burt, *Ohio State Med. J.*, 1943, 39, 1113.

**CORTROPHIN "Z"**

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2.

DESCRIPTION: A long-acting preparation of corticotrophin.

INDICATIONS: All conditions in which corticotrophin would otherwise be used.

DOSAGE: Average needed to produce a full adrenocortical response is 20 international units by intramuscular injection every second day. The size and frequency of injections regulated to suit individual needs.

HOW SUPPLIED: In twin pack consisting of rubber-capped vial containing 40 i.u. ACTH in 1 c.c. of solvent and ampoule of buffer solution; when mixed a suspension for injection is produced.

FIRST ISSUED: For export in November 1953.

NOTE: The Ministry of Health controls the distribution of all ACTH in Great Britain.

**MERALLURIDE**

BRAND NAME (of injection): **MERCARDAN**.

MANUFACTURER OF BRAND: Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex.

DESCRIPTION: Methoxy-oxymercuripropylsuccinylurea with theophylline (meralluride, U.S.P.); as a parenteral solution of the sodium salt each c.c. of which is equivalent to 39 mgm. of organically combined mercury and 48 mgm. of theophylline. A diuretic.

INDICATIONS: Oedema of congestive heart failure, etc.

DOSAGE: Intravenously, intramuscularly or subcutaneously. *Adults*: 1 to 2 c.c. (equivalent to 39 to 78 mgm. of mercury). An initial dose of 0.5 c.c. or less is recommended. Doses for children are proportional to body weight.

HOW PACKED: In boxes of six and twelve 1-c.c. ampoules, and twelve 2-c.c. ampoules. Also in 10-c.c. rubber-capped vials.

FIRST ISSUED: October 1953.

REFERENCES: Gelfand (1952), *N.Y. St. J. Med.*, 1952, 52, 665; Gold, *et al.* (1947), *Amer. J. Med.*, 1947, 3, 665.

Cross reference for card index:

**MERCARDAN:**

see MERALLURIDE.

**MISCELLANEOUS INQUIRIES****Concentrated Blue Rinse**

*Please give a recipe for a "concentrated blue rinse" (liquid) for use after shampooing.*

A BLUEING solution for the hair can be prepared from aniline violet. The usual strength is 0.15 per cent. in water.

**Tar Oil Washes**

*Can you recommend a method of preparing a tar-oil winter wash?*

THE most satisfactory material to use in making tar-oil washes is a liquid neutral distillate boiling between 280° and 360°C. The high-boiling neutral material cannot be emulsified satisfactorily with soap, but good emulsions can be made by means of Agral WB or Agral AX. A convenient method of preparing the emulsion is first to mix the distillate with 10 per cent. of its volume of Agral WB (or Agral AX). To half a gallon of the mixture add 9½ gall. of water, then about 5½ oz. of caustic soda, and stir well. The resulting emulsion appears to be stable for an indefinite period, even when exposed to air. It is preferable first to dissolve the alkali in a little water. An equivalent quantity of washing soda may be used.

**Tenants Who Will Not Go**

*We have living accommodation over the pharmacy, but until family reasons compelled us to give up our house outside the town we were happy in having tenants—a young couple who married when the accommodation became available. Despite a signed undertaking to vacate the premises if required to do so, they now refuse to go. Is there any legal action I can take to regain possession?*

THE fact that your tenant undertook to give up possession is immaterial. If the premises and his tenancy are controlled by the Rent Acts, you cannot obtain possession except on one of the grounds permitted by the Acts. If a furnished tenancy can be established, it is outside the Rent Acts and you would be automatically entitled to possession if you determine the tenancy by a proper notice to quit. *Prima facie*, if it could be said that at least 20 per cent. of the rent paid can fairly be attributed to the use of the furniture in the rooms, then the tenancy is not controlled. Assuming that it is a controlled tenancy and that you became the owner of the premises before September 1, 1939, then you are entitled to possession on the ground that you reasonably require the premises for occupation as a dwelling by yourself and your family, provided that the Court is satisfied that making an order for possession would not cause greater hardship than refusing to make one. You should serve your tenant with a clear week's notice to quit, expiring on the day of the week on which the tenancy began. After the expiry of the notice to quit you should issue proceedings for recovery of possession on the above ground.

## COMING EVENTS

## Monday, January 25

NORTH LONDON PHARMACEUTICAL ASSOCIATION, Bull and Butcher (restaurant entrance), High Road, Finchley, London, N.20, at 8 p.m. Dr. J. A. Hobson on "The Christie Case," Meeting restricted to members of the Pharmaceutical Society.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND, 73 University Street, Belfast, at 8 p.m. President's "At Home." Mr. J. N. Patterson (pharmaceutical inspector to the Ministry of Home Affairs) on "The Law Relating to the Sale of Poisons and Dangerous Drugs."

## Tuesday, January 26

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Dr. R. F. Montgomerie on "The British Veterinary Codex."

## Wednesday, January 27

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. A. G. Fishburn, Ph.C., F.R.I.C., on "The Formulary of the British Veterinary Codex" and Mr. D. C. Garratt, B.Sc., Ph.D., F.R.I.C., on "Standardisation of the Drugs and Galenicals of the British Veterinary Codex."

FOOD GROUP, SOCIETY OF CHEMICAL INDUSTRY, Burlington House, Piccadilly, London, W.1, at 6.30 p.m. Nutrition panel meeting. Dr. L. J. Harris on "Vitamins and Newer Concepts."

MEMORIAL SERVICE for the late MR. G. A. MALLINSON, Parish Church of St. George the Martyr, Queen Square, London, W.C.1, at 3 p.m. Arranged by the Executive Council of the National Pharmaceutical Union.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Robin Hood Hotel, Longbridge Road, Romford, at 6.45 for 7.15 p.m. Annual dinner and dance.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Sheffield, at 8 p.m. Film show.

## Thursday, January 28

CROYDON PHARMACISTS' ASSOCIATION and BRANCH, Pembroke Hall, Wellesley Road, West Croydon, at 7 for 8 p.m. Mr. C. K. Neale (Ilford, Ltd.) on "Miniature Camera Technique," "Flash Work" and "Round and About with Ilford Colour."

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Café Imperial, Harrogate, at 7.30 p.m. Mr. H. Cloney (Parke, Davis & Co., Ltd.) on "Antibiotics and Antibacterial Therapy."

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Hotel Metropole, Leeds, at 7.30 p.m. Mr. J. Horrocks on "From Apothecary's Shop to Drug Store."

SOUTHLAND-ON-SEA BRANCH, PHARMACEUTICAL SOCIETY, Queen's Hotel, Westcliff-on-Sea, at 7.30 p.m. Pharmaceutical films presented by Mr. C. W. Bruce, M.P.S.

## Friday, January 29

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, General Hospital, Birkenhead, at 8 p.m. Mr. C. H. Sykes (chief pharmacist, the London Hospital) on "Modern Treatment of Disease."

SOCIETY FOR ANALYTICAL CHEMISTRY, Sir John Cass College, Jewry Street, Aldgate, London, E.C.3, at 7.15 p.m. Film "Old Masters of Microchemistry." Papers on "Organic Ion Exchange" and "Inorganic Ion Exchange."

## Saturday, January 30

NORTH OF ENGLAND SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, Engineers' Club, Albert Square, Manchester, at 2.15 p.m. Annual meeting, followed by Dr. D. W. Kent-Jones (president of the Society) on "The Society for Analytical Chemistry."

## Advance Information

CHelsea SCHOOL OF PHARMACY ASSOCIATION, reunion dinner on February 25. Ticket 2ls., and not as previously stated.

## TRADE MARKS

From the "Trade Marks Journal," December 30, 1953

For preparations for destroying slugs (5)  
SLUGFIT, B722,631, by the Murphy Chemical Co., Ltd., Wheatthampstead.

For pharmaceutical and veterinary preparations (5)  
PYGMIA, 723,993, by the Crown Chemical Co., Ltd., Lamberhurst.

For non-medicated toilet paper (16)  
JUMBO, 724,103, by Ellern Paper Co., Ltd., London, W.C.1.

From the "Trade Marks Journal," January 6

For industrial chemicals (1)  
TANIGAN, 718,351, by Farbenfabriken Bayer A.G., Leverkusen, Germany.

For detergents (3)  
SILERONE, 718,440, by Badische-Anilin- & Soda-Fabrik A.G., Ludwigshafen-on-Rhine, Germany.

For shaving soap and cream and non-medicated lotions for use after shaving (3)  
BARBER BOBS, 722,300, by Alcona Products, Ltd., London, N.W.1.

For all goods (3)  
FLEUROME, 722,528, by Paul V. Kutiak & Co., Ltd., London, S.W.14. EVERWA, EVERSAAE, 723,867-68, by Ashe Laboratories, Ltd., Leatherhead, Surrey.

For soap powder (3)  
FRUM KOSHER SOAP POWDER, B722,203, by Lloyd Rakusen & Sons, Ltd., Leeds.

For pharmaceutical preparations (5)  
KNOLL ENGLAND, B644,668, by Knoll, Ltd., London, W.1. CHILVA ELIXIR, 710,409, by Chilva Laboratories, Ltd., Bradford. ERYTHROSULFA, 720,753, by Upjohn of England, Ltd., London, E.C.2. PIONEER, 720,938, by Fredk. Boehm, Ltd., London, W.1. SILGARD, TRIAVLON, 723,612-14, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1. CHLORASP, 724,177, by Gilbert Roberts Lane, Gloucester. MECOLCIDE, 724,225, by Ciba, Ltd., Basle, Switzerland.

For fungicides (5)  
TETRATOX, 719,728, by Pest Control, Ltd., Bourn, Cambs.

For all goods excluding insecticides, fungicides, infants' and invalids' foods (5)  
THEKA, B721,879, by Theaker Chemist, Ltd., St. Leonards-on-Sea, Sussex.

For styptics (5)  
BARBER BOBS, 722,301, by Alcona Products, Ltd., London, N.W.1.

For pharmaceutical preparations for human and veterinary use, sanitary substances, medical and surgical plasters, bandaging material, disinfectants and antiseptics (5)

TEBAFEN, 722,739, by J. R. Geigy S.A., Basle, Switzerland.

For all goods (5)  
COVANYL, 723,838, by H. Lundbeck & Co. A/S, Copenhagen, Denmark. ETHNOBAR, PHOLNINE, 723,863,915, by Allen & Hanburys, Ltd., London, E.2. THOVALDUN, 724,233, by Thomas Vallance Duncan, Hamilton, Lanarks.

From the "Trade Marks Journal," January 13

For industrial, scientific and photographic chemicals (1)  
OCTEL, 720,582, by the Associated Ethyl Co., Ltd., London, W.1.

For all goods (3)  
WUNDAZONE, B722,549, by Apex Chemicals, London, N.W.5. HEADSPIN, 724,337, by Ashe Laboratories, Ltd., Leatherhead.

For cosmetic preparations, hair lotions, and dentifrices (3)  
TECHNICOLOR, 712,625, by Technicolor Motion Picture Corporation, Hollywood, U.S.A.

For cosmetic powder cases, lipstick cases, mascara cases (3)  
VOGUETTE, 724,077, by Vogue Vanities, Ltd., Birmingham.

For soil-conditioning agents and fertilisers (1)  
PAX, 724,001, by Produx Industries, Ltd., Luton.

For non-medicated toilet preparations (3)  
DOLCIS, 721,772, by Upsons, Ltd., London, S.E.1.

For toilet shampoos in the form of creams (3)  
BLUE MINK, 724,079, by Raymonde (Court Hairdressers), Ltd., London, W.1.

For mouth-washes and tablets for mouth-washes being medicated and antiseptic (5)  
BOROGEN, 720,565, by Benson & Co., London, W.1.

For anti-convulsant and anti-spasmodic preparations (5)  
HIBICON, 721,368, by American Cyanamid Co., New York, U.S.A.

## PRICE CHANGES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; \* = Tax 25 per cent.

BENGER LABORATORIES, LTD. (from January 1)

	Each	I.R.P.
Extomac	15 0	20 0 A

BURROUGHS, WELLCOME & CO. (from January 18)

Tablet oral penicillin	20,000 units	100	250	100,000 units	10	100	250	200,000 units	10	100	250	500,000 units	10	100
	20	13 3 R	30 9 R	10	3 9 R	30 0 R	72 6 R	10	4 4 1 R	36 0 R	87 0 R	10	10 0 R	87 6 R

Claims for rebate on old stock must be returned to the company by January 30. If supplies have been purchased through wholesalers, claims, quoting batch numbers, should be sent to them.

CIBA LABORATORIES, LTD. (from January 1)  
Nupercaine base and hydrochloride 5 mgm. 17 0 A

KODAK, LTD.  
Yellow D. & P. wallet, size B, 1,000 22 0 R  
size C, 1,000 34 6 R  
Photogravure wallet, size B, 1,000 34 0 R  
size C, 1,000 43 0 R

A. J. WHITE, LTD.  
Doz. 22 0 2 9 R  
Nefco, 3½-oz. carton 76 0 9 6 R  
14-oz. carton 344 0 43 0 R  
5-lb. drum Each 148 0 222 0 R  
28-lb. drum

## P.A.T.A. PROTECTED LIST

BRITISH PATENT PERFORATED PAPER CO., LTD. (from January 15)

	Gross	
Bronco interclaved packets	116 0	1 1 A

EMERSON DRUG CO. (Agents, Thos. Marns, Ltd.) (addition) Doz.  
Bromo-Seltzer\* 12 6 1 8  
25 0 3 4  
36 0 4 9  
126 0 16 7 1/2

GENATOSAN, LTD.  
Genozo mouthwash tablets\* 20 13 6 1 9 1/2 A  
50 24 0 3 6 A

OPTREX, LTD. (from January 1)  
Optrex eye compresses\* jar of six 28 0 4 1 A

T. & H. SMITH, LTD.  
Glyscara\* 2 oz. 15 0 2 4 A  
4 oz. 24 0 3 9 A

## NEW PRODUCTS AND PACKS

C. L. BENCARD, LTD.  
Glydexil 42 9 4 9

EVANS MEDICAL SUPPLIES, LTD.  
Fitoban fungicidal cream\* 25-gm. tube 19 6 2 10

J. C. & J. FIELD, LTD.  
Care hand cream 15 6 2 3  
Lavend-air air conditioner 27 0 3 0  
refill 22 6 2 6

PONDS EXTRACT CO., LTD.  
Angel Face mirror case 7 6  
refill 3 6



# NEW- Nasal spray with NEOPHRYN



This powerful nasal decongestant is now available as a spray. Neat and unobtrusive, the new 'Neophryn' nasal spray can be carried in the pocket or handbag and is always available when needed. It has a special micro-jet tip designed to give an adequate dose of 'Neophryn' in a fine even spray.

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*Exempt from Purchase Tax.*

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Associated export company: WINTHROP PRODUCTS LIMITED, LONDON.

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(Nottingham 45501.)  
London Sales Office,  
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(Central 0111.)

PRODUCT	PACK	FACE PRICE
<b>Alimex</b> A palatable fluid preparation of aluminium hydroxide and magnesium hydroxide.	8 fl. oz. 80 fl. oz. (dispensing pack)	2/1½ + 4½d. P. Tax 20/-
<b>Fenox Nasal Drops</b> Phenylephrine and naphazoline in a non-oily viscous vehicle of adjusted pH and tonicity.	½ fl. oz. dropper bottle	2/6
<b>Ocusol Eye Drops</b> A unique stable combination of sulphacetamide and zinc sulphate in a buffered viscous vehicle.	½ fl. oz. dropper bottle 20 fl. oz. (dispensing pack)	3/- 67/6
<b>Thenotrate</b> Tablets containing theobromine, phenobarbitone and glyceryl trinitrate.	Tablets 100 500	10/6 35/-
<b>Tusana</b> A palatable cough linctus combining in a demulcent base the sedative effects of codeine, with the properties of cocillana and other dependable expectorants.	4 fl. oz. 20 fl. oz. (dispensing pack) 80 fl. oz. (dispensing pack)	2/8 + 5½d. P. Tax 12/6 45/-
<b>'Viules'</b> Single-dose injections in disposable cartridges.	Details of range and prices on application.	

Prices subject to usual trade discounts.

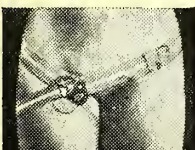




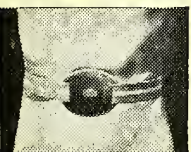
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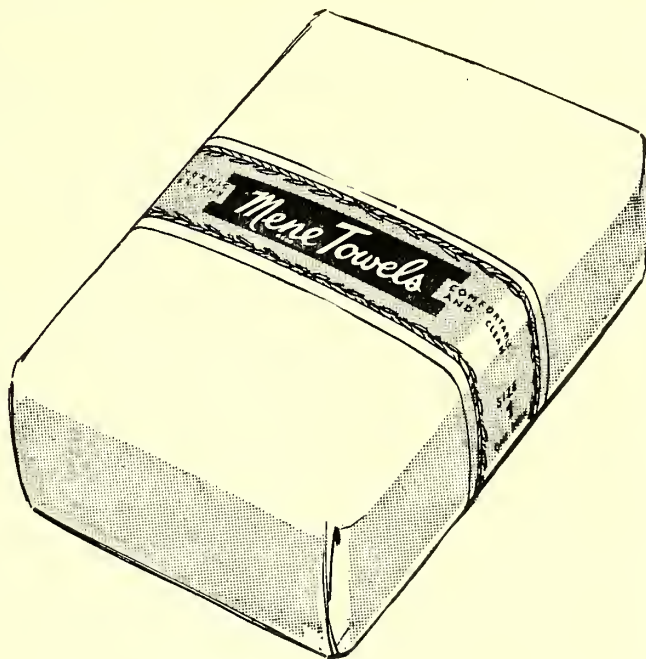
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Because 'SUCRETS' soothe sore throats in a matter of seconds each purchaser of 'SUCRETS' lozenges becomes a 'SUCRETS' salesman!

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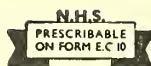


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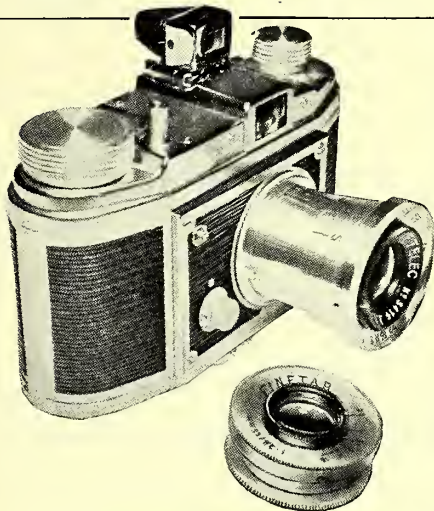
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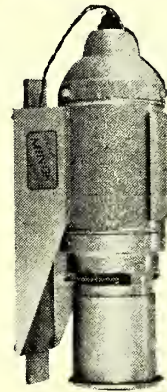
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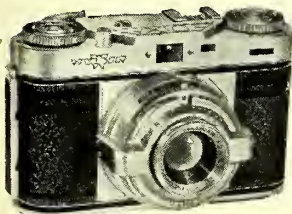
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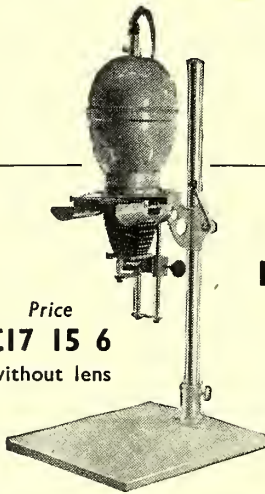
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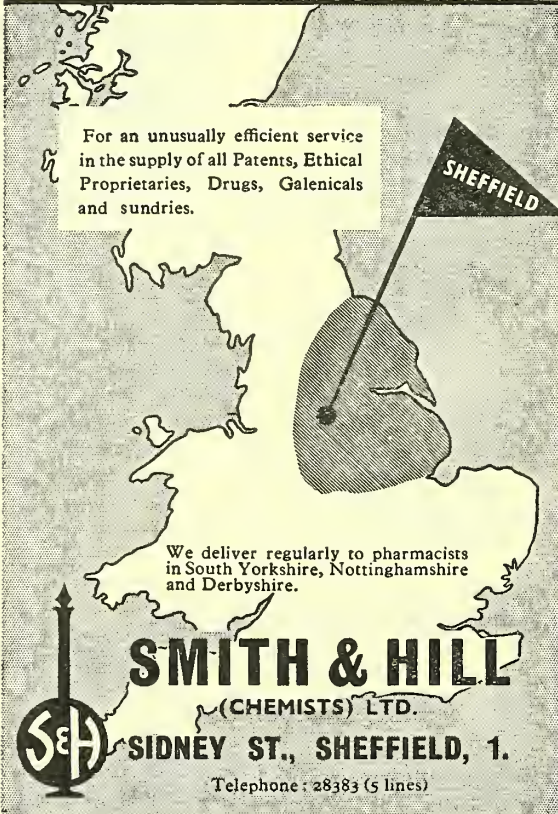
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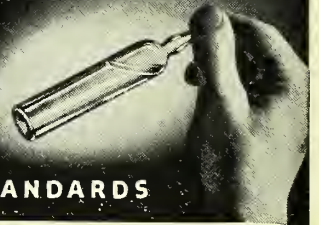
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It pays to push this size.

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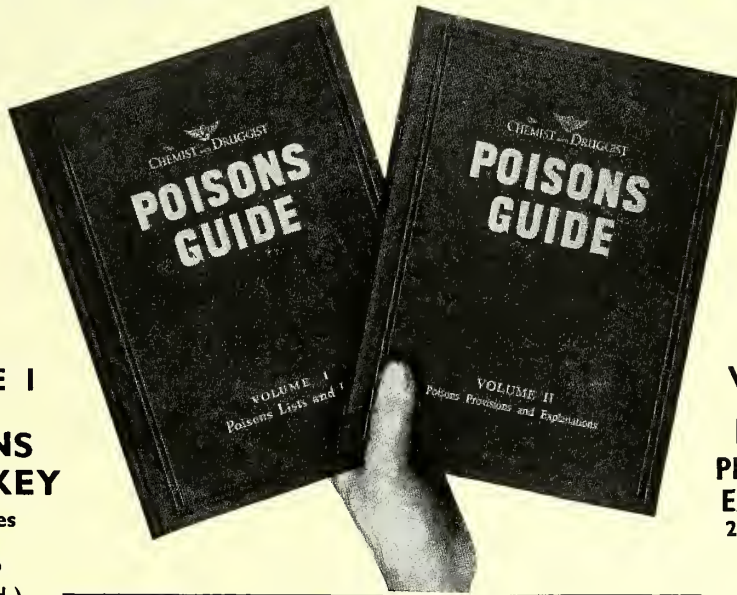
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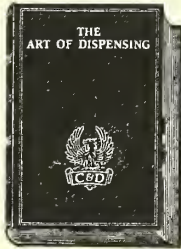


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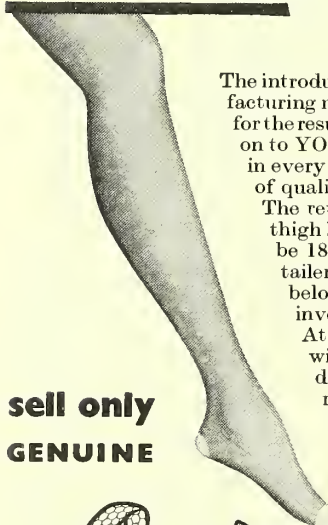
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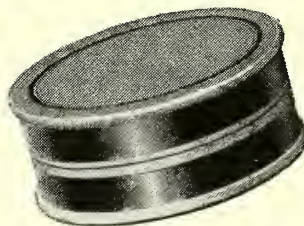


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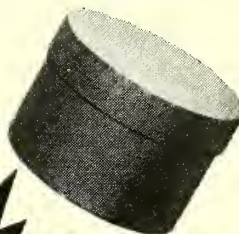


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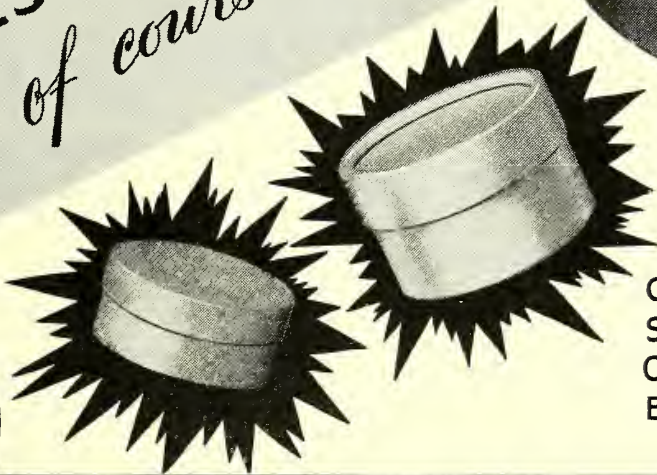
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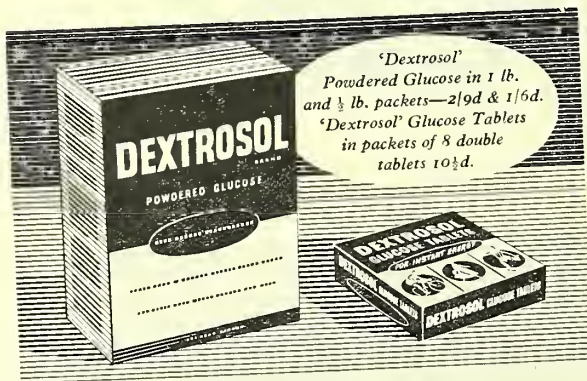


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C 4803

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C 6437

**CENTRAL WIRRAL GROUP**

Pharmacist

Applications are invited for the appointment of Pharmacist in the Group Pharmaceutical Department at Clatterbridge Hospital.

Clatterbridge Hospital (716 beds) is a modern and rapidly expanding general hospital, within easy access of Liverpool, Chester and North Wales.

Whitley Council terms and conditions of service will apply. Salary £450 x £25—£575 per annum.

Application forms from Group Secretary, Clatterbridge Hospital, Bebbington, Cheshire, to be returned by February 6, 1954.

C 6451

**ROYAL FREE HOSPITAL**

Pharmacist

Applications are invited for the post of Pharmacist at the above hospital. Salary £450 (at age 23) x £25 p.a. to £575 p.a. plus London Weighting of £20 p.a. under age 26 and £30 p.a. age 26 and over. An additional £25 p.a. will be paid to candidates possessing an approved higher qualification. Applications, stating age, experience and referees, should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

C 6406

**CRUMPSALL HOSPITAL,  
MANCHESTER, 8**

(Adult General, 1,225 Beds)

Pharmacist

Applications are invited from Pharmacists for the post of Pharmacist at this Hospital. Salary and conditions of service as laid down by the Whitley Council.

Applications, giving age, nationality, details of experience, together with the names and addresses of two referees, are to be sent to the undersigned as soon as possible.

A. T. SAMPSON, Dept. "C.D.",  
Group Secretary.

C 176

**LINCOLN NO. 1 HOSPITAL  
MANAGEMENT COMMITTEE**

Senior Pharmacist or Pharmacist

Applications are invited for the post of Senior Pharmacist or Pharmacist at the Lincoln County Hospital (Category II). This hospital is the centre for all the pharmaceutical work of the Group, which includes eleven other units and a good general experience can be gained here. The salary and conditions of service will be in accordance with the Whitley Council decisions.

Applications, stating age, qualifications and experience together with names for reference should be forwarded to the undersigned as soon as possible.

R. W. HOWICK,  
Group Secretary.

C 177

**MONMOUTHSHIRE  
COUNTY COUNCIL**

Appointment of Assistant-in-Dispensing

Applications are invited for the post of an Assistant-in-Dispensing at the Health Centre, Church Street, Tredegar, Mon.

The salary will be in accordance with the Whitley Council's scale, i.e., £130 per annum at the age of 16 years, rising from £320 per annum at 22 years of age to a maximum of £415 per annum.

The appointment will be subject to a medical examination, to the provisions of the National Health Service (Superannuation) Regulations and to the Regulations of the Council in force from time to time.

Application forms may be obtained from the undersigned to whom they should be returned not later than January 30, 1954.

VERNON LAWRENCE,  
Clerk of the Council.

County Hall,

Newport, Mon.

January 13, 1954.

C 6441

**ST. ALFEGE'S HOSPITAL,  
GREENWICH, S.E.10**

Deputy Chief Pharmacist

Applications are invited for the post of DEPUTY CHIEF PHARMACIST in a busy well-equipped pharmaceutical department at the above hospital. Applicants must have had wide experience in a similar hospital, with a large out-patient department, and should be conversant with modern pharmaceutical techniques including sterilisation processes. Whitley Council salary and conditions. Detailed applications (incl. present salary) together with copies of not more than three recent testimonials should reach the Secretary, G. & D./H.M.C., at the hospital as soon as possible.

C 6438

**ROYAL FREE HOSPITAL**

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist to take charge of Out-Patient Dispensary. Salary in accordance with Whitley Council Scale. Applications, with names of two referees, should be addressed to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

C 6404

**ROYAL FREE HOSPITAL GROUP**

Pharmacist

Applications are invited for the post of Pharmacist at the North Western Branch and Hampstead General Hospital, Hampstead, N.W.3. Salary £450 (at age 23) x £25 p.a. to £575 p.a. plus London Weighting of £20 p.a. under age 26 and £30 p.a. age 26 and over. An additional £25 p.a. will be paid to candidates possessing an approved higher qualification. Applications, stating age, experience and referees should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

C 6405

**ST. GEORGE'S HOSPITAL,  
HYDE PARK CORNER,  
LONDON, S.W.1**

Pharmacist

required to work in Sterile Products Laboratory of this teaching hospital. Salary and conditions in accordance with Whitley Council Scale. Apply, in writing, to: Chief Pharmacist.

C 6419

**SOUTH BELFAST HOSPITAL  
MANAGEMENT COMMITTEE,  
MUSGRAVE PARK HOSPITAL,  
BALMORAL, BELFAST**

Pharmacist

Applications are invited for the post of PHARMACIST at the above Hospital.

Candidates must be registered with the Pharmaceutical Society in Great Britain or Northern Ireland.

Salary £450 per annum, rising by annual increments of £25 to a maximum of £575 per annum. This minimum salary is limited to age 23, and the commencing salary of successful candidates, if under 23 years of age, will be abated by £25 per annum for each year below that age.

Applications, stating age, qualifications, experience, etc., together with copies of two recent testimonials to the Acting Secretary, so as to be received not later than Thursday, February 11, 1954.

C 6440

**WORTHING GROUP HOSPITAL  
MANAGEMENT COMMITTEE,  
WORTHING HOSPITAL,  
LYNDHURST ROAD,  
WORTHING, SUSSEX**

Pharmacist

Applications are invited for the post of Pharmacist (male or female) at the above Hospital. Salary and conditions of service in accordance with Pharmaceutical Whitley Council. Applications, stating age, qualifications, experience and present employment, with the names of two referees to be forwarded to the Hospital Secretary.

A. V. OAKTON,  
Group Secretary.

C 6443



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C 6418

**Appointments—Continued****THE HOSPITAL FOR SICK CHILDREN,  
GREAT ORMOND STREET,  
LONDON, W.C.1**

Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£575) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist. C 166

**WEST LONDON HOSPITAL,  
HAMMERSMITH ROAD,  
LONDON, W.6**

Senior Pharmacist (Male)

required to take charge of production, sterile preparation and stores at the above general teaching hospital, where there is a busy pharmaceutical department and a wide variety of experience is offered. Salary scale £525—£625, plus London Weighting.

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**WEST MIDDLESEX HOSPITAL  
(Category V)  
(South West Middlesex Hospital  
Management Committee)**

Pharmacist

required. Salary scale £450 x £25 to £575 plus London weighting. Higher qualification allowance £25 p.a. Whitley conditions applicable. Applications stating age, qualifications and experience with names of two referees to Chief Pharmacist, West Middlesex Hospital, Isleworth, Middlesex. C 6450

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APPLICATIONS ARE INVITED from pharmacists resident within reasonable travelling distance of Uxbridge, for the position of manager-superintendent to a substantial private limited company; remuneration by way of salary and commission, and subject to satisfactory service, the successful applicant may later on be given the option of acquiring a personal interest in the business. All replies treated as strictly confidential. Please write initially to Box C 6436.

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Preference will be given to a pharmacist who desires to make a career with a progressive organisation able to offer continued promotion in return for efficient service. There are excellent welfare and sickness benefits and the salary will be commensurate with modern trends and duties involved. Apply stating details and when available for an interview to Chief Pharmacist, Grange Road, Leyton, London, E.10. C 4801**NORTHOLT.** Unqualified assistant with dispensing experience required immediately. Permanency, S. Jones, 155 Church Road, Northolt, Tel.: Waxlow 1817. C 4774**QUALIFIED MANAGER** required for a new pharmacy which will shortly be opened in the centre of a large housing estate in Lincoln. A three-bedroomed flat over the premises or a house in the outskirts of the city is available. Good commencing salary and bonus on dispensing. Superannuation scheme with transfer clause in operation. Apply Managing Secretary, Lincoln Co-operative Society, Ltd., Free School Lane, Lincoln. C 4812**SCOTLAND.** Chemist-optician on C.P.C. list required to act as manager of modern pharmacy and optical branch in Carnoustie, Angus. The appointment will become permanent after a short initial period of service, and carries an attractive salary with liberal commission on all sight-testing; superannuation scheme in operation. Applications in writing, stating age, experience, and when available for interview to: Mr. C. Campbell, M.P.S., Superintendent Chemist, Retail Drug Department, S.C.W.S., Ltd., 187 Bogmoor Road, Shieldhall, Glasgow, S.W.1. C 4810**SCOTLAND.** Chemist required to act as branch manager of modern well-fitted pharmacy in Musselburgh. The appointment will become permanent after a short initial period of service and carries a good salary; superannuation scheme in operation. Applications in writing, stating age, experience, and when available for interview to: Mr. C. Campbell, M.P.S., Superintendent Chemist, Retail Drug Department, S.C.W.S., Ltd., 187 Bogmoor Road, Shieldhall, Glasgow, S.W.1. C 4807**SOUTHAMPTON AREA.** Unqualified assistant required for coastal pharmacy. Must be experienced in photography and capable of selling high priced cameras and accessories, projectors, recording machines, sound equipment, etc. This is a permanent position with good prospects and congenial working conditions. Hours 9 a.m. to 6 p.m. Apply with full details of general and photographic experience to Box C 6447.**SOUTHGATE, N.14.** Experienced pharmacist is required for branch managerial vacancy. Well-fitted shop with adequate supporting staff. Substantial cash trade with good dispensing connection. Excellent salary and commission, good promotion prospects. Accommodation available away from branch if required. Permanency with superannuation benefits. Apply with full details of experience stating when available for interview to Chief Pharmacist, Grange Road, Leyton, London, E.10. C 4800**SUPERINTENDENT PHARMACIST** required March 1. Commencing salary £800 p.a. Tel.: New Cross 2190. C 4826**WORTHING, SUSSEX.** Aston's have a vacancy for a young male pharmacist, preferably one recently qualified, for busy dispensary. Apply by letter giving age, experience, salary required and when available. C 4830**WORTHING, SUSSEX.** Aston's have a vacancy for an unqualified keen counter assistant, male, aged 30-35 years, for their main shop at 25-27 Montague Street, good experience essential. Apply by letter giving age, experience, salary required and when available. C 4831**LOCUMS WANTED****TWO LOCUM PHARMACISTS** are required for London and Suburban areas to complete relief managerial programme. The tour of duties will cover the months January to October with a permanency if desired at the conclusion. Salary and expense basis. H. Warburton, Chief Pharmacist, Grange Road, Leyton, London, E.10. Telephone: Leytonstone 5671. C 4799**RETAIL (OVERSEAS)****A VACANCY EXISTS** for a pharmacist (single man) for service in E. Africa with a company with retail branches in Nairobi, Dar-es-Salaam, Mombasa, Tanga, Arusha, Eldoret, Kampala, Kitale and Nakuru. Starting salary £810 p.a. including cost-of-living allowance, with three annual increments to £900 p.a. and four further annual increments to £1,100 p.a. Tours are for four years with annual local leave followed by home leave on full basic pay. Contract renewable by mutual agreement. Kit allowance and free passage both ways. Non-contributory pension plan now being introduced. Applicants must hold M.P.S. qualification of Great Britain or Northern Ireland. Apply, in writing, giving qualifications and experience to Box C 6384.**BRITISH COLONY.** Wholesale and retail chemists with Head Offices in England invite applications from pharmacists for positions as managers of their overseas branches. Young men preferred with experience of retail pharmacy. Knowledge of optics an advantage but not essential. Tour of short duration with generous home leave on full pay. Free furnished quarters provided. Medical attention whilst overseas. First-class air or sea passage paid outward and homeward. Low income tax. Contributory pension scheme. Positions offer interesting remunerative and progressive careers. Apply, giving full details of qualifications and experience. Box C 4809.



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**PHARMACISTS**, two, required for British East Africa; single men preferred. Five years' agreement, reduced by thirteen days for each month served at the coast. Commencing salary £57 10s. per month rising by £30 per year, plus cost-of-living allowance. Five months' leave on full pay at end of term; passage paid both ways. Contributory provident fund. Applicants can be interviewed in England/Scotland/Ireland. Application in writing, stating age, qualifications, experience, whether married, and if married, any children, to W. A. Sparrow & Co., Ltd., 4-7 Chiswell St., London, E.C.1. C 6439

**WHOLESALE**

A **PROPRIETARY** manufacturing company in the London area has a vacancy for a physical chemist to head up a section of its research laboratory in connection with the development (including formulation and processing) of an emulsion product. The position is a permanent one and the Company operates a five-day week and a generous pension scheme. Write, in confidence, giving fullest details of education, qualifications, age, experience and salary required to Box C 6410.

A **SALES REPRESENTATIVE** for bulk pharmaceutical chemicals is required to call on hospitals and wholesalers in London and the South of England. Applicants should be pharmacists with experience in hospital or retail pharmacy and should be able to work on their own initiative. Remuneration will be well above the average and a car supplied. Applications, which will be treated in the strictest confidence, should contain full details of education, age and career and should be sent, marked "Confidential," to Mr. R. H. Kenyon, Director, Pharmaceutical Laboratories, Geigy, Ltd., Tenax Road, Trafford Park, Manchester. C 6432

**ADDIS, LTD.** (Makers of Wisdom) require additional representatives for South Yorkshire and the South Midlands. Applicants should have experience of calling on chemists. The positions are interesting, progressive and pensionable. Salary, commission, expenses and car allowance. Write, giving details of age, experience, salary required and whether car owner or not to Addis, Ltd., Brushworks, Hertford. C 6409

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**HUGHES BRUSHES, LTD.**, 240-242 Bath Road, Slough, wish to appoint a representative to cover the North of England and Scotland for them. Applicants should have a well-established connection with the wholesale trade in the territory, and must be able to sell on quality and not only on price. Letters should be sent in full confidence c/o Sales Manager at the above address. C 4814

**MANUFACTURING CHEMISTS** in East Yorkshire require man with manufacturing drug house experience including wet and dry counter, for general wholesale pharmaceutical works supervision. Permanent position with pension scheme for suitable man or woman. Full particulars including age, wage required, and copy references, to Box C 6433.

**MEDICAL REPRESENTATIVES:** Applications are invited by Sandoz Products, Ltd., from young men wishing to become medical representatives in the territories of Bristol, London, N.E., London, N.W., and S. Wales. Age not exceeding 28. Applicants should be qualified pharmacists (Ph.C. preferably) or possess degree in science. Salary commensurate with experience. Thorough training provided. Please send full details of age, education, qualifications and experience, with photograph, to the Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.1. C 6334

**MEDICAL REPRESENTATIVES** will shortly be required to fill the following vacancies:—Northumberland and Durham; Derbyshire, Nottinghamshire and Leicestershire. Remuneration will be well above the average and a car supplied. Applicants should have a sound pharmaceutical or medical background and be able to work on their own initiative. Applications, which will be treated in the strictest confidence, should contain full details of education, age and career and should be sent, marked "Confidential" to Mr. E. A. Asher, Director, Medical Department, Pharmaceutical Laboratories Geigy, Ltd., Rhodes, Middleton, Manchester. C 6431

**MIDLANDS REPRESENTATIVE** required by old-established manufacturing chemists to take over live connection. Must be first-class salesman, preferably with some pharmaceutical experience. Resident on territory and able to provide own car. Payment by salary, commission and expenses. Contributory pension scheme. Apply stating full details in first letter to Box C 6446.

**PHARMACIST** required as assistant in general pharmaceutical manufacturing, ampoule and aseptic laboratories in the Birmingham area. Five-day week. Pension scheme. House available. Apply, giving all particulars including salary required to Box C 6393.

**PHARMACIST** for small proprietary medicine business. Write giving age and experience. Interview by appointment. George Eade, Ltd., 232 Goswell Rd., London, E.C.1. C 175

**PHARMACEUTICAL CHEMIST** required with wholesale manufacturing laboratory experience. Apply, in confidence, to the Managing Director, W. H. Leat, Ltd., Manufacturing Chemists, Kay Street, Bolton, Lanc. C 4813

**PHARMACEUTICAL PRODUCTION** manager. An exceptional vacancy occurs with firm of world-wide repute for man (30-40) with pharmaceutical qualification to supervise the activities of pharmaceutical stores and departments manufacturing capsules, tablets, powders, ointments, liquid and hypodermic products, etc. At least five years similar experience with medium or large-scale pharmaceutical manufacturers essential. A knowledge of fine-chemical manufacture and pharmaceutical plant an advantage. Full details of qualification, experience, age, salary expected, etc., to Works Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Hirwaun Trading Estate, near Aberdare, Glam. C 6452

**PHARMACEUTICAL PRODUCTION** manager. An important vacancy occurs with firm of world-wide repute for man (30-40) to supervise and co-ordinate packaging material stores, warehousing and dispatch departments. Applicants should have at least four years' similar experience in the pharmaceutical industry and be acquainted with the latest type of filling and packaging equipment for capsules, tablets, ointments, powders, liquid products, injectables. Full details of experience, age, salary, expected to Works Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Hirwaun Trading Estate, near Aberdare, Glam. C 6453

**PRODUCTS MANAGER** required by pharmaceutical house to handle new products. Some knowledge of marketing, advertising, purchasing and a pharmaceutical background preferred. Apply Box C 4822.

**STOREKEEPER**, 25-45, male, required by perfumery company at Tottenham for controlling and handling stocks. Experience of perfumery or pharmaceutical trade useful but not essential. Reply, stating age, details of experience and salary required. Box C 6442.

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**THE CHEMISTS FEDERATION** is desirous of increasing its representative staff and invites applications for an assistant in the development of the work of the Federation. The work will involve outside representation throughout Great Britain as well as some office work in London. Salary commensurate with age and experience. Full details to Secretary, The Chemists Federation, 4 Queen Square, London, W.C.1. C 4791

**THE CROOKES LABORATORIES** have a vacancy in their manufacturing department for a pharmaceutical chemist. Some previous experience desirable. The position is pensionable and offers scope for advancement. Apply, stating age, experience, salary required, etc., to Production Manager, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10. C 6435

**VETERINARY** manufacturing chemists, with national connection with the qualified profession, wish to discuss representation on their behalf on a part-time or commission basis for the South-west and Southern Counties. Could be combined with other good class representation. Box C 6455.

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**Situations Open—Continued****WHOLESALE (OVERSEAS)**

**BURROUGHS WELLCOME & CO.**, wish to engage a pharmacist on behalf of their agents for East Africa. Applicants may be married or single but not over 44 years of age. Must be willing to travel extensively throughout the territory in order to develop sales. Liberal salary, housing allowance and full passage paid. Applications in the first instance to The Manager, Overseas Division, Burroughs Wellcome & Co., 183-193 Euston Road, London, N.W.1. C 6454

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**A HIGHLY RESPECTED** gentleman is looking for a reputable firm who would like a first-class representative with a connection of over 1,000 live accounts in Scotland (wholesale and retail chemists, departmental stores and co-operative societies), is top salesman for his present prosperous firm and desires a change. Excellent references and further details supplied willingly. Box C 4806.

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Group Secretary.

The Bow Arrow Hospital,  
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